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(first 208h. wanting)

Sociology

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Közleményei. no.1-9, 11. 1907-13.

no.1-4. Szakkatalógus; pt.1, A lakáskérdés és a városszabályozás kapcsolatos kérdései.—Szakkatalógus; pt.2, A községi pénzügy.—A választóreform.—Szakkatalógus; pt.3, Községi szocializmus.

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no.11. Mintajegyzék városi nyilvános könyvtárak számára.

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Preface, contents, etc. in Hungarian, French and German.

Farnam, Henry Walcott, *comp.*

r 016.3 F24

Bibliography of the Department of economics and sociology of the Carnegie Institution of Washington. 1912. [Tuttle.]

Originally prepared for the exhibit of December 1911.

Hasse, Adelaide Rosalie, *comp.*

qr 016.3 H34

Index of economic materials in documents of the states of the United States; prepared for the Department of economics and sociology of the Carnegie Institution of Washington. [v.9-11.] 1912-15. (Carnegie Institution of Washington. Publication no.85.)

v.9-10. Ohio, 1787-1904.

v.11. New Jersey, 1789-1904.

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Public Affairs Information Service.

qr 016.3 P98

Bulletin [weekly]; a coöperative clearing house of public affairs information, Oct. 1914-date. 1915-date. Wilson.

Cumulated bimonthly and annually.

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r 016.3 R91

Bulletin, bi-monthly, Oct. 1913-date. no.1-date. 1913-date.

Includes the report of the librarian and bibliographies on the following subjects:

no.2. The social survey.

no.3. Eugenics.

no.5. Cooperative credit.

no.6. Penal farms and farm colonies.

no.8. Emergency relief.

no.11. American foundations.

no.12. Welfare work.

no.14. The social survey.

no.15. Feeble-mindedness.

no.17. Hospital social service.

no.18. Tuberculosis.

no.20. School nurse.

Wisconsin Woman's Suffrage Association, comp.

r 016.3 W812

Social forces; a topical outline, with bibliography. [1913.]

Contents: Introductory and preparatory topics.—Modern governmental methods and ideals.—Labor and industrial topics.—Woman and some human problems.—Educational problems.—Social forces at our command.

Designed for study clubs.

301 Theory

For History of civilization, see 901

Bernard, Luther Lee.

r 301 B45

Transition to an objective standard of social control. [1911.] University of Chicago Press.

Thesis for Ph. D., University of Chicago.

Attempts to show that the main current of present-day social theory is largely an outgrowth of utilitarianism and argues that our system of social values must be reconstructed, to fix the group rather than the individual as the measure of all things social.

Blackmar, Frank Wilson.

301 B51

Elements of sociology. 1908. Macmillan. (Library of economics and politics.)

"References" at the end of each chapter.

A later edition is published under the title "Outlines of sociology" (301 B510).

"The chief merit of the book from the theoretical side is that it gives an intelligent statement of the view-points of all the leading sociological writers. The chief merit from the practical side is that it touches upon a variety of vital and interesting problems in such a way as to tempt the student to go forward and specialize." *American journal of sociology*, 1905.

Blackmar, Frank Wilson, & Gillin, J. L.

301 B510

Outlines of sociology. 1915. Macmillan. (Social science textbooks.)

"References" at the end of each chapter; "Partial list of books consulted," p.567-573.

Bristol, Lucius Moody.

301 B75

Social adaptation; a study in the development of the doctrine of adaptation as a theory of social progress, with a preface by T. N. Carver. 1915. Harvard University Press. (Harvard economic studies.)

"Bibliography," p.335-342.

Awarded the David A. Wells prize for the year 1914-15, and published from the income of the David A. Wells fund.

Comte, Auguste.

301 C73

System of positive polity. 4v. 1875-77. Longmans.

v.1. General view of positivism & introductory principles; tr. by J. H. Bridges.

v.2. Social statics; or, The abstract theory of human order; tr. by Frederic Harrison.

v.3. Social dynamics; or, The general theory of human progress; tr. by E. S. Beesly and others.

v.4. Theory of the future of man; tr. by Richard Congreve, with an appendix consisting of early essays on social philosophy; tr. by H. D. Hutton.

Dealey, James Quayle.

301 D345

Sociology; its simpler teachings and applications. 1909. Silver.

"Bibliography," p.363-381.

"Aims to supply the need of an elementary 'discussion of social betterment which does not lead up to a socialistic conclusion.' Part 1 outlines the principles underlying social development; part 2 applies these principles to social problems and indicates methods of betterment. An excellent beginning textbook for college classes." *A. L. A. booklist*, 1910.

Dealey, James Quayle, & Ward, L. F. 301 D34

Text-book of sociology. 1909. Macmillan.

"Bibliography," p.19-25; "References to Ward's other works" at the end of each chapter.

"Based fundamentally on *Pure sociology*, but is in no respect a mere condensation of it. Using the material of this larger and more complete work as a basis...an attempt has been made to prepare a sort of handbook containing in epitome the essential elements of a system of sociology." *Preface*.

Ellwood, Charles Abram. 301 E53s

The social problem; a constructive analysis. 1915. Macmillan. (Library of economics, politics and sociology.)

"Should be judged as a handbook, not as a...treatise." *Survey*, 1915.

"Considering the historical elements of the problem, the physical and biological elements, the economic elements, the spiritual and ideal elements, the author analyzes the social problem in western civilization and outlines a scientific social philosophy which shall serve as a basis for a well balanced progress." *A. L. A. booklist*, 1915.

Ellwood, Charles Abram. 301 E53

Sociology in its psychological aspects. 1912. Appleton.

The same. 1914.....r 301 E53

"Select bibliography," p.397-404.

"A study of sociology developed on the basis of functional psychology and giving no attention to the biological side. Though it sets forth and defends a particular theory of society, yet sufficient space is given to the general subject and to a criticism of the various theories which have obtained to make it a valuable introduction to the study of sociology. A thoroughly scientific work, excellently adapted, through its freedom from technicalities, to classroom work or to the well trained reader." *A. L. A. booklist*, 1913.

301 G82

The great analysis; a plea for a rational world-order, with a preface by Gilbert Murray. 1912. Scribner.

Plea for a great analysis, or survey, of the whole resources of our planet and of the requirements of all its inhabitants.

Hobhouse, Leonard Trelawney. 301 H651

Social evolution and political theory. 1913. Columbia University Press. (Columbia University lectures; Julius Beer foundation.)

Contents: The meaning of progress.—Progress and the struggle for existence.—The value and limitations of eugenics.—Social harmony and the social mind.—Social morphology.—The growth of the state.—Evolution and progress.—Social philosophy and modern problems.—The individual and the state.

Keller, Albert Galloway. 301 K16

Societal evolution; a study of the evolutionary basis of the science of society. 1915. Macmillan.

"Professor Keller has gone back to Darwin for his terminology and his purpose is to apply the Darwinian factors of variation, selection, transmission and adaptation to the field of human society...He is concerned with the evolution of society and its institutions and not at all with the evolution of individuals. His work is based on Professor Sumner's 'Folkways,' of which it is in effect an extension." *Book review digest*, 1915.

Kirkpatrick, Edwin Asbury. 301 K28

Fundamentals of sociology, with especial emphasis upon community and educational problems. 1916. Houghton.

"Bibliography," p.277-288.

"Rather small and elementary book...It is written clearly and simply, and is arranged and developed with much judgment...It ought to be useful as a textbook...in schools where it is desirable to give only a brief amount of time to the subject; and it should attract the general reader." *Nation*, 1916.

Martin, Prestonia Mann.

301 M42

"The most important question in the world:" Is mankind advancing? 1910. Baker.

The author's aim is "to show that progress consists in the improvement of the human species, not in the accumulation of more things or more facts; and that progress, under this definition, has not taken place since the downfall of the Greeks some two thousand years ago." Her argument is reinforced by a large array of facts and presented with skill.

Nasmyth, George William.

301 N146

Social progress and the Darwinian theory; a study of force as a factor in human relations, with an introduction by Norman Angell. 1916. Putnam.

"The philosophy of force claims to find its scientific foundation in the application of Darwin's theory of natural selection to the evolution of human society. To show that this application is false and that it is based on a distorted version of Darwin is the purpose of this book...Divided into three parts...The philosophy of force; Mutual aid as a factor of social progress; Justice as a prime social need." *Book review digest*, 1916.

Nearing, Scott.

301 N18

Social sanity; a preface to the book of social progress. 1913. Moffat.

Contents: Introduction.—The life stream.—The spirit of science.—The kingdom of man.—Pessimism and optimism.—Life and living.—The gospel of welfare.—Human rights.—Life and labor.—The fruits of industry.—The spirit of revolt.—The passion for progress.—The quintessence of social sanity.

Reflective essays, ethical in purpose, treating of the conditions of modern life and the need of a sane attitude in order to insure social progress.

Strong, Josiah.

301 S92

Our world; the new world-life. 1913. Doubleday.

Dr Strong believes that we have come to a veritable world-crisis and that certain problems unless duly solved will become imminent perils. These are the problems of industry, of wealth, of race, of the individual and society, of legislation, and of the city.

Tönnies, Ferdinand.

301 T61

Gemeinschaft und gesellschaft; abhandlung des communismus und des socialismus als empirischer culturformen. 1887.

Trotter, W.

301 T76

Instincts of the herd in peace and war. [1916.] Unwin.

Contents: Herd instinct and its bearing on the psychology of civilized man.—Sociological applications of the psychology of herd instinct.—Speculations upon the human mind in 1915.

The first two essays appeared in the "Sociological review" in 1908 and 1909.

The trend of Mr Trotter's argument is to show that the gregarious instinct in man, although to it must be ascribed much that has hindered the advance of his civilization, is nevertheless the base upon which all civilization must be built by reason acting in the light of experience. The most interesting chapters for the general reader are those in which the psychology of the German and the Englishman is compared, and in which it is explained how impossible it is for either to understand the other unless the herd instinct is taken into consideration. *Condensed from Outlook (London), 1916.*

Urwick, Edward John.

301 U27

Philosophy of social progress. [1912.] Methuen.

The author "throws down the gauntlet to the sociologists by declaring that there cannot be...a 'science' of society, but only a philosophy of social development. In his view, the elements of social life are too numerous and complicated to admit of scientific synthesis...Peculiarly interesting is his view of the purposive character of social development, and his recognition of spiritual and religious forces as elements in progress...His...contribution, while avowedly controversial...has a solid basis of clear thinking." *Nation*, 1912.

Wallace, Alfred Russel.

301 W17

Social environment and moral progress. 1913. Cassell.

The main contention of the first half of the book is that there has been no perceptible advance in morality through the ages and that the present social structure is radically wrong. The second part deals almost wholly with the workings of the evolutionary law in particular reference to social progress, and maintains that progress may be achieved in the future through natural selection.

Wallas, Graham.

301 W177

The great society; a psychological analysis. 1914. Macmillan.

In his earlier book, "Human nature in politics," Mr Wallas discussed psychology as a factor in the study of politics. In this later one, which continues the theme with more definiteness of aim and more substance, he makes a plea for social psychology as the basis of a study of human nature in mass. By the "great society" he means the complex, urban, industrialized society of to-day. *Condensed from North American review, 1914.*

Warber, Gustav Paul.

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Social and economic survey of a community in northeastern Minnesota. 1915. University of Minnesota. (Minnesota University. Current problems, no.5.)

303 Encyclopedias

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Cyclopedia of American government; ed. by A. C. McLaughlin and A. B. Hart. 3v. 1914. Appleton.

"Covers topics in theory or philosophy of political society, forms of political organization, methods and agencies of law and government, history of political parties and other American political topics." *Kroeger's Guide to the study and use of reference books, 1917.*

304 Essays

Angell, James Burrill.

304 A58

Selected addresses. 1912. Longmans.

Contents: Inaugural address.—The higher education; a plea for making it accessible to all.—Commemorative oration.—State universities.—The old college and the new university.—A memorial discourse: Henry Simmons Frieze.—The influence of a lawyer outside of his profession.—The inadequate recognition of diplomatists by historians.—The European concert and the Monroe doctrine.—Present problems in the relations of missions to governments.—The Turkish capitulations.

Bookwalter, John Wesley.

304 B63

Rural versus urban; their conflict and its causes; a study of the conditions affecting their natural and artificial relations. 1911. Knickerbocker Press.

Contents: The principle of organic life.—Hill cities.—Agriculture in ancient and modern Italy.—Agricultural towns.—Ethics of trade and industry.—Vice of cities.—Money, manufacturing and foreign commerce.—Trade development of the United States.—Development of trans-Mississippi lands.—Growth of agriculture and cities.—Agriculture in France.—Agriculture in the United States.—Tariffs.—Unequal development of rural and urban interests.—Proportionate growth of rural and urban life.—The reign of chance.

Carpenter, Edward.

304 C22e

England's ideal, and other papers on social subjects. 1909. Sonnenschein.

Other papers: Modern money-lending and the meaning of dividends.—Social progress and individual effort.—Desirable mansions.—Simplification of life.—Does it pay?—Trade.—Private property.—The enchanted thicket.

Carver, Thomas Nixon.

304 C24

Essays in social justice. 1915. Harvard University Press.

Contents: What is justice?—The ultimate basis of social conflict.—The principle of self-centered appreciation commonly called self-interest.—The forms of human conflict.—Economic competition.—How ought wealth to be distributed?—How much is a man worth?—Interest.—Socialism and the present unrest.—Constructive democracy.—The single tax.—The question of inheritance.—The question of monopoly.—The cure for poverty.—The responsibility of the rich for the condition of the poor.—Social service.—How ought the burdens of taxation to be distributed?

Clark, John Bates.

304 C52

Social justice without socialism. 1914. Houghton. (Barbara Weinstock lectures on the morals of trade.)

"A thoughtful economist, Professor Clark is acutely aware of the diseases of our body politic; but he contends that reform and not revolution will remedy those evils." *Survey*, 1915.

Coler, Bird Sim.

304 C68

Two and two make four. 1912. Beattys.

Contents: Church and state.—What things are of Cæsar.—The birth of the papal state.—The middle ages.—Gregory the "politician."—Two French Philips.—The ghost of a Spanish king.—The daggers that were not blessed.—The purpose of the school.—Where they blew the light out.—Socialism.—The nation under God.

Author, who was formerly controller of the city of New York, aims to apply to some social and historical questions the well-known principle stated in his title. Chief among the subjects treated is education—and he is convinced that the public schools of the United States are not making for righteousness, but that there is a significant relation between godless schools and an increasing vicious class, and that the Catholic church has been and still is the defender of civilization.

Conway, Sir William Martin.

304 C76

The crowd in peace and war. 1915. Longmans.

A study of the psychology of crowds, and the nature of those who drive or are driven by them. Under the term "crowd" is included every considerable group of men, from a mob to a nation.

Deals with the matter in a pleasantly human manner. For if the author lacks the true philosophic manner, he has a wide knowledge of his subject, an agreeable method of imparting it to others, a gift for happy illustration, and a refreshing sense of humor. The book is not the last word upon the crowd, but it is certainly the first which has been addressed intelligibly and entertainingly to the general reader. *Condensed from Outlook (London)*, 1916.

Curzon, George Nathaniel, earl.

304 C93

Subjects of the day; being a selection of speeches and writings, with an introduction by the earl of Cromer; ed. by D. M. Chapman-Huston. 1915. Macmillan.

Contents: THE EMPIRE: The British empire; Oxford and the empire; The empire and the coronation; The cement of empire.—INDIA: Service in India; Lord Clive; Veterans of the mutiny; Indian careers and Indian viceroys; The Indian civil service; The capital of India.—DOMESTIC AFFAIRS: The lord warden of the Cinque Ports; Eton; London beautiful; Old London; Birds; English scenery; The homes of great men; Ancient monuments; Literature and poverty; Old masters; The needs of Oxford; Old and new universities; Women's work; Geography; The power of the press; National pessimism; Smoke.—FOREIGN COUNTRIES: Palestine; The South African union; Oriental studies; Persian independence.—PERSONAL TRIBUTES: Mrs Craigie (John Oliver Hobbes); Captain Scott and his comrades; David Livingstone; George Wyndham; Alfred Lyttelton; Sir William Anson; Balliol portraits (Mr Asquith and Lord Loreburn); Lord Roberts; Lord Tennyson.—PUBLIC AFFAIRS: National service; Woman suffrage; The House of lords and the finance bill of 1909; A second chamber; Home rule for Ireland; The great war.

Devine, Edward Thomas.

304 D49

The normal life. 1915. Survey Associates.

Contents: Introduction.—Infancy.—Childhood.—Youth.—Maturity: work.—Maturity: home.—Late maturity and old age.—Appendix: Suggestive questions.

Contains the substance of a course of lectures delivered in Baltimore in February and March 1915, under the auspices of the Social Service Corporation.

Aims to show that the whole point of social work is to give the less fortunate classes the essentials of normal living.

Dorchester, Daniel, b. 1851.

304 D73

The sovereign people [and other essays]. 1914. Eaton.

Other essays: Some old oppressions.—The shackles of plutocracy.—The industrial struggle.—Rent, the modern fate.—The new socialism.—How Germany is solving some of our social problems.—Christian paganism.—Wealth and welfare.—The church and her critics.—The churches and Christ's kingdom.

Author looks forward to a democracy which shall be religious and social rather than political, and which shall put an end to social oppression. He urges the Christian church to find here an opportunity for service.

Ellwood, Charles Abram.

304 E53a

Sociology and modern social problems. 1913. Amer. Book Co.

Contents: The study of society.—The bearing of the theory of evolution upon social problems.—The function of the family in social organization.—The origin of the family.—The forms of the family.—The historical development of the family.—The problem of the modern family.—The growth of population.—The immigration problem.—The negro problem.—The problem of the city.—Poverty and pauperism.—Crime.—Socialism in the light of sociology.—Education and social progress.—The bearing of modern psychology upon social problems.—Theoretical summary.

"Select references," at the end of each chapter.

Fawcett, Henry, & Fawcett, Mrs Millicent (Garrett).

304 F29

Essays and lectures on social and political subjects. 1872. Macmillan.

Contents: Modern socialism.—The general aspects of state intervention.—Free education in its economic aspects (with a postscript).—Pauperism, charity and the poor law.—The regulation of the hours of labour by the state.—National debts and national prosperity.—What can be done for the agricultural labourers (with a postscript).—The schools' inquiry commissioners on the education of girls.—The education of women.—The electoral disabilities of women.—Why women require the franchise.—The House of lords.—An American on representation.—Proportional representation and Hare's scheme explained.

Greg, William Rathbone.

304 G86r

Rocks ahead; or, The warnings of Cassandra. 1875. Osgood.

Author believes there are three dangers hanging over the future of England: the political supremacy of the lower classes, the approaching industrial decline of England and the divorce of the intelligence of the country from its religion.

Haworth, Paul Leland.

304 H36

America in ferment. 1915. Bobbs. (Problems of the nations.)

Contents: The trend.—The home of the nation.—For the sake of posterity.—The blood of the nation.—The color line.—The problem of industrial peace.—Social justice for workers.—Big business.—The Achilles heel of plutocracy.—How can we raise the standard of living?—Our changing institutions.—Our defective citizenship.—The revolt of the women.—Political tendencies.—Socialism in America.—The road upward.

"Bibliography," p.459-463.

Henderson, Charles Richmond.

304 H44s

Social programmes in the West; lectures delivered in the Far East. [1913.] University of Chicago Press. (Barrows lectures, 1912-1913.)

Contents: Foundations of social programmes in economic facts and in social ideals.—Public and private relief of dependents and abnormals.—Policy of the Western world

Henderson, Charles Richmond—*continued*. 304 H44s
in relation to the anti-social.—Public health, education and morality.—Movements to improve the economic and cultural situation of wage-earners.—Providing for progress. "The lectures will be of value to American readers in that they concisely place before them the social problem in its most fundamental aspects." *Boston evening transcript*, 1913.

Key, Ellen Karolina Sofia. 304 K23
The younger generation; tr. from the Swedish by A. G. Chater. 1914. Putnam.

Contents: What the age offers and expects of youth.—Associated activity and self-culture.—The peace problem.—Youth, woman and antimilitarism.—"Class badges."—The children's charter.—Recreative culture.—The few and the many.
"Studies of the coming social democracy and the part which the education and endeavors of the next generation will play in bringing it to pass." *Independent*, 1914.

Lagarde, Paul Anton de. q 304 L15
Deutsche schriften. 1903.

Lee, Gerald Stanley. 304 L52
Crowds; a moving-picture of democracy. 1913. Doubleday.

Contents: Crowds and machines.—Letting the crowd be good.—Letting the crowd be beautiful.—Crowds and heroes.—Good news and hard work.
Stimulating chapters, suggestive rather than constructive, on the renovation of society. The author, who is himself an idealist, has confidence in the crowd but urges the need of men of vision to lead it, amplifying in this respect the idea contained in his "Inspired millionaires."

Lee, Gerald Stanley. 304 L52w

We; a confession of faith for the American people during and after war; a study of the art of making things happen; a recommendation of the first person plural for men and nations. 1916. Doubleday.

"A protracted plea for peace and good-will which offers just one novel...idea, namely, that institutions...and especially nations, should take pains to express their best spirit through skilful advertising...There is a perplexing blend of the seer, the windy idealist, the mere talker, and the sheer charlatan." *Nation*, 1916.

Lippmann, Walter. 304 L73d

Drift and mastery; an attempt to diagnose the current unrest. 1914. Kennerley.

Contents: Introduction.—The themes of muckraking.—New incentives.—The magic of property.—Caveat emptor.—A key to the labor movement.—The funds of progress.—"A nation of villagers."—A big world and little men.—Drift.—The rock of ages.—A note on the woman's movement.—Bogeys.—Poverty, chastity, obedience.—Mastery.—Modern communion.—Fact and fancy.

Lippmann, Walter. 304 L73

A preface to politics. 1913. Kennerley.

Contents: Routinier and inventor.—The taboo.—The changing focus.—The golden rule and after.—Well meaning but unmeaning; the Chicago vice report.—Some necessary iconoclasm.—The making of creeds.—The red herring.—Revolution and culture.

Lodge, Sir Oliver Joseph. 304 L76s

Modern problems. [1912.] Methuen.

Contents: Free will and determinism.—The nature of time.—Balfour and Bergson.—Huxley on man's place in nature.—The position of woman in the state.—The responsibility of authors.—Universal arbitration, and how far it is possible.—The irrationality of war.—The functions of money.—The pursuit of wealth.—Public wealth and private expenditure.—Some social reforms.—Poor law reform.—Charity organization.—Squandering a surplus.—The production and sale of drink.—The smoke nuisance.—Competition *v.* coöperation.—Ruskin's political economy.—Huxley's Lay sermons.—The attitude of Tennyson towards science.

Mackmurdo, A. H.

304 M21

Pressing questions; profit-sharing, women's suffrage, electoral reform. 1913. Lane.

"The premises on which his arguments are built...are well founded, his deductions are well supported by close reasoning, and the appendices, which deal mainly with profit-sharing schemes, are instructive." *Outlook (London)*, 1913.

Münsterberg, Hugo.

r 304 M96

Social studies of to-day. 1913. Unwin.

Contents: American patriotism.—The educational unrest.—The case of the reporter.—The Germany of to-day.—The German woman.—Coeducation.—Household sciences.—The Germans at school.—Psychology and the navy.

Nordau, Max.

304 N43c

Die conventionellen lügen der kulturmenschheit. 1893.

Riddle, David Hunter.

r 304 R43

Genuine radicalism! an address before the Goethean and Diagnothian societies of Marshall College, Pa. delivered on the 26th of September 1843. 1843. Jaynes. Pittsburgh.

On the various agencies used at different times in attempts to reform or benefit society at large.

304 S678

Socialism and the great state; essays in construction, by H. G. Wells [and others]. 1912. Harper.

Contents: The past and the great state, by H. G. Wells.—The great state and the country-side, by the countess of Warwick.—Work in the great state, by L. G. C. Money.—The making of new knowledge, by Sir Ray Lankester.—Health and healing in the great state, by C. J. Bond.—Law and the great state, by E. S. P. Haynes.—Democracy and the great state, by Cecil Chesterton.—Women in the great state, by Cicely Hamilton.—The artist in the great state, by Roger Fry.—The present development of the great state, by G. R. S. Taylor.—A picture of the church in the great state, by Conrad Noel.—The growth of the great state, by Herbert Trench.—The tradition of the great state, by H. P. Vowles.

Taft, William Howard.

r 304 T13

Peace, patriotic and religious addresses by President Taft, delivered during his administration. International Peace Forum.

Towne, Ezra Thayer.

304 T66

Social problems; a study of present-day social conditions. 1916.

Macmillan. (Social science text-books.)

The same.....r 304 T66

Contents: Influence of natural conditions on economic and social development.—Population.—Immigration.—Child labor.—Women in industry.—Sweating system.—Labor organizations in the United States.—Unemployment.—The blind and the deaf.—The feeble-minded and the insane.—Crime and punishment.—Marriage and divorce.—Liquor problem.—Poverty.—Conservation of natural resources.—Conservation of plant and animal life.—Conservation of human life.

"References," at the end of each chapter.

Wells, Herbert George.

304 W49w

What is coming? a European forecast. 1916. Macmillan.

Contents: Forecasting the future.—The end of the war.—Nations in liquidation.—Brantree, Bocking and the future of the world.—How far will Europe go towards socialism?—Lawyer and press.—The new education.—What the war is doing for women.—The new map of Europe.—The United States, France, Britain and Russia.—"The white man's burthen."—The outlook for the Germans.

305 Periodicals

r 305 A5122

American statesman's yearbook [1912], from official reports of the United States government, state reports, consular advices and foreign documents. 1912. McBride.

Contents: The United States.—Foreign countries.—Records and statistics.

r 305 C72

Colorado College publications; social science series. no.8-12. 1913-16.

For no.1-7 see preceding catalogue, v.6.

Illinois University.

r 305 I22

Studies in the social sciences. v.1-date. 1912-date.

v.1. Financial history of Ohio, by E. L. Bogart.—Sources of municipal revenues in Illinois, by L. D. Upson.—Friedrich Gentz, an opponent of the French revolution and Napoleon, by P. F. Reiff.

v.2. Taxation of corporations in Illinois other than railroads, since 1872, by J. R. Moore.—The West in the diplomacy of the American revolution, by P. C. Phillips.—Development of banking in Illinois, 1817-63, by G. W. Dowrie.

v.3. A history of the general property tax in Illinois, by R. M. Haig.—The Scandinavian element in the United States, by K. C. Babcock.—Church and state in Massachusetts, 1691-1740, by S. M. Reed.

v.4. The Illinois Whigs before 1846, by C. M. Thompson.—The defeat of Varus and the German frontier policy of Augustus, by W. A. Oldfather and H. V. Canter.—The history of the Illinois Central Railroad to 1870, by H. G. Brownson.

v.5, no.1. The enforcement of international law through municipal law in the United States, by P. Q. Wright.

r 305 I24

International Whitaker; a statistical, historical, geographical and commercial handbook for all nations, more especially designed for the English-reading people of the world, 1913. 1912.

Missouri University.

r 305 M74

Bulletin; social science series, 1914-16. no.1-2. 1914-16.

no.1-2. The loan office experiment in Missouri, 1821-36, by A. J. McCulloch.—The Monroe doctrine; its origin, development and recent interpretation, by F. F. Stephens.

National Institute of Social Sciences.

r 305 N15

Journal, 1915-date. v.1-date. 1915-date.

The National Institute of Social Sciences was constituted a department of the American Social Science Association and organized under its national charter in 1912.

qr 305 S67

Social service; a monthly review of social and industrial betterment, 1901-July 1904. v.3-10. 1901-04.

v.10 complete in one number.

v.4, no.3, Sept. 1901 wanting.

For v.11-v.13, no.4 see preceding catalogue, v.6.

r 305 W56

Western journal and civilian, devoted to agriculture, manufactures, mechanic arts, internal improvement, commerce, public policy and polite literature; monthly, 1848-May 1855. v.1-13. 1848-55.

v.1-v.7, no.2, title reads "Western journal."

v.3, p.305-336 wanting.

r 305 Y21

Year-book of social progress for 1912-1913/14; being a summary of recent legislation, official reports and voluntary effort with regard to the welfare of the people. 2v. Nelson.

Annual summary of social work and legislation in Great Britain.

306 Societies

- American Institute of Social Service.** qr 306 A512am
 American Institute of Social Service, New York city.
Contents: Readjustment to new conditions; the scope and object of the institute [by] Josiah Strong.—Personal opinions [by] Horace Porter [and others].—European collaborating members [by] W. H. Tolman.—The Musée Social, Paris and the League for Social Service, New York.
- American Sociological Society.** qr 306 A5122
 Papers and proceedings [of the] annual meeting (1st-date), 1906-date. v.1-date. [1907-date.] (Publications.)
- Universal Races Congress (1st), London, 1911.** r 306 U25r
 Record of the proceedings. 1911. King.
 Report of executive council and summary of speeches.
- Chicago School of Civics and Philanthropy.** r 307 C43
 Announcements, 1911/12-1916/17, with register, 1910/11-1915/16.
 For volumes for 1909/10-1910/11 see preceding catalogue, v.6.

308 Collected works. Speeches

- Adams, John Quincy.** 308 A21
 Writings; ed. by W. C. Ford. v.1-6. 1913-16. Macmillan.
 Covers the years 1779 to 1820.
- Bagehot, Walter.** r 308 B15
 Works and life; ed. by Mrs Russell Barrington. 10v. 1915. Longmans.
 v.1-9. Works.
 v.10. Life [by Mrs Barrington].
 "Memoir," and "Second memoir," by R. H. Hutton, v.1, p.1-54.
 "Bagehot [was] an English economist and journalist...He was a considerable authority in all questions of banking and finance, and consulted by chancellors of the exchequer...on such matters at critical moments; but in the literary world he was even better known for his lively, vivid and humorous criticism." *Dictionary of national biography*.
- Daniel, John Warwick.** 308 D22
 Speeches and orations; comp. by his son E. M. Daniel. 1911. Bell.
 Author (1842-1910) was United States senator from Virginia.
- Deák, Ferencz.** 308 D34
 Munkáiból; sajtó alá rendezte és bevezetéssel ellátta Wlassics Gyula. 2v. 1906.
- Hilliard, Henry Washington.** 308 H56
 Speeches and addresses. 1855. Harper.
 Most of these speeches were delivered in the House of representatives.
- Rousseau, Jean Jacques.** r 308 R77
 Oeuvres complètes; avec les notes historiques et critiques de tous les commentateurs. 20v. 1830-33.
 v.1. Discours.
 v.2. Théâtre.—Poésies diverses.—Mélanges.
 v.3-4. Émile; ou, De l'éducation.
 v.5. Contrat social.
 v.6-7. Julie; ou, La nouvelle Héloïse.
 v.8. Lettres de la Montagne.—Lettres sur la botanique.
 v.9. Dictionnaire de musique, A-P.
 v.10. Dictionnaire de musique, Q-Z.—Écrits sur la musique.

Rousseau, Jean Jacques—*continued*.

r 308 R77

- v.11-12. Confessions.
- v.13. Dialogues.—*Les rêveries du promeneur solitaire*.
- v.14-17. Correspondance.
- v.18-19. Œuvres inédites, suivies d'un supplément à l'histoire de sa vie et de ses ouvrages, par V. D. Musset-Pathay.
- v.20. Histoire de la vie et des ouvrages de J. J. Rousseau, par V. D. Musset-Pathay.

Schurz, Carl.

308 S39

Speeches, correspondence and political papers; selected and ed. by Frederic Bancroft on behalf of the Carl Schurz Memorial Committee.
6v. 1913. Putnam.

- v.1. Oct. 20, 1852–Nov. 26, 1870.
- v.2. Dec. 13, 1870–Feb. 27, 1874.
- v.3. March 4, 1874–June 28, 1880.
- v.4. July 20, 1880–Sept. 15, 1888.
- v.5. Jan. 30, 1889–Dec. 27, 1898.
- v.6. Jan. 1, 1899–April 8, 1906.

Széchenyi, István, *gróf*.

308 S99

Munkáiból; sajtó alá rendezte és bevezetéssel ellátta Berzeviczy Albert. 2v. 1903.

- v.1. Hitel.—Világ.—Stadium.—Úti rajzok.
- v.2. A Kelet népe.—Politikai programtöredékek.—Széchenyi beszédeiből.—Egy pillantás a névtelen "Visszapillantás" -ra.—Széchenyi-aphorizmák.
"Széchenyi-irodalom," v.2, p.331-356.

Vilas, William Freeman.

r 308 V32

Selected addresses and orations. 1912. Privately printed.

Author (1840-1908) was successively postmaster-general and secretary of the Interior under President Cleveland, and United States senator from Wisconsin, 1891-97.

309.1 Social surveys

Aronovici, Carol.

309.1 A76k

Knowing one's own community; suggestions for social surveys of small cities or towns. [1912?] Amer. Unitarian Assoc. (American Unitarian Association—Social and public service department. Social service series. Bulletin no.20.)

The same.....r 309.1 A76

Curtis, Florence Rising.

r 309.1 C93

The collection of social survey material. 1915. A. L. A. Pub. Board.
Reprinted with additions from the "Institution quarterly," June 30, 1914.

Elmer, Manuel Conrad.

309.1 E54

Social surveys of urban communities. 1914. George Banta Pub. Co.
"Bibliography," p.71-73.
Thesis for Ph. D., University of Chicago.

310 Statistics. Census

Bailey, William Bacon.

r 310 B16

Modern social conditions; a statistical study of birth, marriage, divorce, death, disease, suicide, immigration, etc., with special reference to the United States. 1906. Century.

Introductory chapter on the history and theory of statistics is followed by statistical information gathered from a wide area and accompanied by interpretive text. The final chapter discusses the growth of population.

Theory

Bowley, Arthur Lyon. 311 B66

Elements of statistics. 1907. King. (London School of Economics and Political Science. Studies in economics and political science.)

For the advanced student. Some of the chapters involve a knowledge of mathematics which is beyond the general reader.

Brinton, Willard Cope. q 311 B75

Graphic methods for presenting facts. 1914. Engineering Magazine Co. (Works management library.)

Shows how to prepare and interpret simple charts and curves so that facts may thereby be presented more vividly than by the old statistical methods. Useful to the business man, the social worker and the legislator.

King, Willford Isbell. 311 K26

Elements of statistical method. 1912. Macmillan.

"References" at the end of each chapter.

"The purpose of this book is to furnish a simple text in statistical method for the benefit of those students, economists, administrative officials, writers, or other members of the educated public who desire a general knowledge of the more elementary processes involved in the scientific study, analysis, and use of large masses of numerical data." *Preface.*

Thorndike, Edward Lee. 311 T39a

Introduction to the theory of mental and social measurements. 1913. Teachers College, Columbia University.

"References for further study," p.214-215.

Intended primarily as an aid in doing statistical work of the sort required in laboratories of experimental psychology. The topics to which most attention is given are the choice of units of measurements, the measurement of individuals, or groups, of differences, of changes and of relationships, and the reliability of measurements and sources of error.

Yule, George Udny. 310 Y47

Introduction to the theory of statistics. 1911. Griffin.

"Short list of works on the mathematical theory of statistics and the theory of probability," p.355-356; "References" at the end of each chapter.

Explains the methods used, without demanding much mathematical knowledge on the part of the reader. In three parts, the first dealing with the theory of attributes, the second with the theory of variables, the third with the theory of sampling.

Population

Newsholme, Arthur. 312 N28

The declining birth-rate; its national and international significance. 1911. Moffat. (New tracts for the times.)

Shows the declining birth-rate as an international phenomenon and analyzes its causes.

Thompson, Warren Simpson. 312 T38

Population; a study in Malthusianism. 1915. Columbia University. (Columbia University. Studies in history, economics and public law, v.63, no.3.)

"Bibliography," p.214-216.

The same. (In Columbia University. Studies in history, economics and public law, v.63, no.3.).....r 330 C72 v.63, no.3

Statistics of special countries

Europe

British dominions year book, 1916. British Dominions General Insurance Co. r 314.2 B7562

The year book for 1916 is devoted to the European war.

Germany—Kaiserliches statistisches amt. qr 314.3 G32
 Statistisches jahrbuch für das Deutsche reich, 1912-15. 33-36. jahrgänge. 1912-15.

For volumes for 1903, 1907-11 see preceding catalogue, v.6.

Almanach national; annuaire officiel de la République française pour 1912-14. r 314.4 A445

For volumes for 1908-11 see preceding catalogue, v.6.

Russian year-book for 1912; comp. and ed. by H. P. Kennard. 2d issue. [1912.] Macmillan. r 314.7 R92

For volume for 1911 see preceding catalogue, v.6.

China. South Africa

China year book, 1912-16, by H. T. M. Bell and H. G. W. Woodhead. r 315.1 C44
 Routledge.

The chapter entitled "Who's who" contains brief biographical sketches.
 No year book was issued in 1915.

South African year-book, 1914. v.1. 1914. Routledge. r 316.8 S726
 v.1, for 1914, ed. by W. H. Hosking.

North America

American Whitaker almanac and encyclopedia for 1915; 9,000 indexed facts concerning the trade, production, population, government and general statistics of every state in the United States, with comprehensive statistics on every country in the world; special war section, 1915-16. Doubleday & Whitaker. r 317 A51

Hoffman, Frederick Louis. r 317 H67
 Economic progress of the United States during the last 75 years; address delivered on the occasion of the 75th anniversary meeting of the American Statistical Association, Boston, Feb. 14, 1914. [1914.]
 Progress as measured by statistics only.

Wilbur, Cressy Livingston. r 317 W69
 Federal registration service of the United States; its development, problems and defects; prepared for the second Pan American Scientific Congress, Washington, Dec. 27, 1915 to Jan. 8, 1916. 1916.
 Issued by the United States bureau of the census.

Canada

Canada—Census and statistics office. r 317.1 C1673f

Fifth census of Canada, 1911; special report on area and population. 1912.

English and French text.

Canada—Census and statistics office. qr 317.1 C1673r

[Report on the] fifth census of Canada, 1911. v.1-6. 1912-15.

v.1. Areas and population by provinces, districts and subdistricts.

v.2. Religions, origins, birthplace, citizenship, literacy and infirmities, by provinces, districts and subdistricts.

v.3. Manufactures for 1910 as enumerated in June 1911.

v.4. Agriculture.

v.5. Forestry, fishery, fur and mineral production.

v.6. Occupations of the people.

Text in English and French.

r 317.1 I23

Imperial year book for Dominion of Canada, 1915-16; ed. by A. E. Southall, assisted by C. H. Moody. 2d year. 1915.

Jamaica

r 317.292 H23

Handbook of Jamaica, comprising historical, statistical and general information, 1911. v.31. 1911.

For volume for 1901 see preceding catalogue, v.1.

United States

r 317.3 A5124

American almanac and treasury of facts, statistical, financial and political; ed. by A. R. Spofford, 1880-81, 1883-86, 1889. 1880-89. Amer. News Co.

For other volumes see preceding catalogue, v.1.

r 317.3 F87

Franklin almanac, calculated by John Armstrong, 1845, 1847. v.27, 29. [1845-47.] Pittsburgh.

For other volumes see preceding volumes of this catalogue.

r 317.3 G25

Gazette times almanac, 1913-14. 1913-14. Pittsburgh Gazette Times. Pittsburgh.

r 317.3 H23

Handy almanac, encyclopedia and atlas, 1914; a book of knowledge for home and office. 1913. Pittsburgh.

Issued by the "Pittsburg dispatch."

r 317.3 L85

Loomis's magazine almanac, 1840, 1845, 1850-53. v.6, 11, 16-19. Pittsburgh.

Almanac for 1840, 1850-51 is called Loomis's Pittsburgh almanac.

For v.1-2 see preceding catalogue, v.1.

United States—Census bureau. r 317.3 U25C12C

[Circulars of information concerning the Bureau of the census.] 1914-16.

United States—Census bureau. r 317.3 U25i

Index to occupations, alphabetical and classified. 1915.

"Classification followed in the general tables of the Thirteenth Census report on occupations."

United States—Census bureau. r 317.3 U25re

Report of the director, 1903/04, 1909/10, 1912/13-1913/14. 1904-14.

The same, 1902/03. 1903. (In United States—Interior department. Annual report, 1902/03.)r 353.3 U25

The same, 1903/04-1911/12. 1905-13. (In United States—Commerce and labor department. Annual report, 1904-12.)r 353.8 U253

July 1, 1903, this bureau was transferred from the Interior department to the Commerce and labor department and the name was changed from Census office to Census bureau.

United States—Census bureau. qr 317.3 U25c12sp

[Special reports and monographs.] v.28-45. 1913-16.

Accounting. In v.28-29, 31.

Agriculture. South, The. In v.45.

Almshouses. In v.35.

Benevolent institutions. In v.32.

Blind. In v.32.

Charities. In v.32.

Children's homes. In v.32.

Cities. In v.28-31, 33, 41.

Cities, Financial statistics. In v.28-29,

31, 33, 39-40, 43.

County finance. In v.39-40.

Deaf. In v.32.

Debt. In v.39-40.

Dispensaries. In v.32.

Electric railroads. In v.37.

Feeble-minded. In v.34.

Financial statistics of cities. In v.28-

29, 31, 33, 39-40, 43.

Governmental expenditures and revenues. In v.39-40.

Governmental organizations. In v.41.

Hospitals. In v.32.

The Census bureau now issues special monographs which continue the series of "Special reports" begun by the 12th Census. The above title has been adopted for the sake of keeping these publications together.

For v.1-27 see preceding catalogue, v.4, 6.

United States—Census bureau. qr 317.3 U25sa

Statistical atlas of the United States. 1914.

Contains the maps and diagrams used for illustrating the statistical tables of the 13th census.

United States—Census bureau. r 317.3 U25st

Story of the census, 1790-1915. [1915.]

United States—Census office. (11th census: 1890.) qr 317.3 U25c11m

[Monographs, by J. S. Billings.] v.4. 1893.

v.4. Vital statistics of the District of Columbia and Baltimore, covering a period of six years ending May 31, 1890.

Other monographs are incorporated in the final reports.

For v.1-3 see preceding catalogue, v.1.

United States—Census bureau. (13th census: 1910.) qr 317.3 U25c13a

Abstract of the census, with supplement for Pennsylvania containing statistics for the state, counties, cities and other divisions. 1913.

Statistics cover population, agriculture, manufactures and mines and quarries.

United States—Census bureau. (13th census: 1910.) **qr 317.3 U25c13p0**
Age of farmers, by color of operator, character of tenure and size of farm. [1914.]

This bulletin contains statistical compilations not found in the Final reports of the 13th census.

Bound with other bulletins.

United States—Census bureau. (13th census: 1910.) **qr 317.3 U25c13s**
[Final reports.] **iv. 1912-14.**

POPULATION:

v.1. General report and analysis.

v.2. Reports by states, with statistics for counties, cities and other civil divisions; Alabama-Montana.

v.3. Reports by states, with statistics for counties, cities and other civil divisions; Nebraska-Wyoming; Alaska, Hawaii and Porto Rico.

v.4. Occupation statistics.

AGRICULTURE AND IRRIGATION:

v.5. General report and analysis.

v.6. Reports by states, with statistics for counties; Alabama-Montana.

v.7. Reports by states, with statistics for counties; Nebraska-Wyoming; Alaska, Hawaii and Porto Rico.

MANUFACTURES:

v.8. General report and analysis.

v.9. Reports by states, with statistics for principal cities.

v.10. Reports for principal industries.

MINING:

v.11. Mines and quarries; general report and analysis.

United States—Census office. (13th census: 1910.) **qr 317.3 U25c13p**
Population by counties and minor civil divisions, 1910, 1900, 1890, 1912.

United States—Census bureau. (13th census: 1910.) **qr 317.3 U25c13p0**
Population, New York city; number of inhabitants by enumeration districts.

This bulletin contains statistical compilations not found in the Final reports of the 13th census.

United States—Census bureau. (13th census: 1910.) **qr 317.3 U25c13p0**
Stability of farm operators; or, Term of occupancy of farms. [1914.]

This bulletin contains statistical compilations not found in the Final reports of the 13th census.

Bound with other bulletins.

United States—Census bureau. (13th census: 1910.) **qr 317.3 U25c13p0**
Statistics of the Indian population; number, tribes, sex, age, fecundity and vitality.

This bulletin contains statistical compilations not found in the Final reports of the 13th census.

Bound with other bulletins.

United States—Children's bureau. **r 317.3 U2532**
Handbook of Federal statistics of children. **pt.1. 1913.** (Miscellaneous series, no.3.)

United States—Federal trade commission. **r 317.3 U2533**
Places in the United States having, in 1910, 2,500 inhabitants or more. 1916.

Western farmer's almanac, 1831, 1839. v.5, 13. 1831-39. **r 317.3 W56**
Curious lists of stage routes leading from Pittsburgh to Philadelphia, to Detroit, Buffalo, Morgantown, Wheeling, etc. Also annual lists of marriages and deaths in Pittsburgh.

For earlier volumes see preceding catalogue, v.1.

Special states

Massachusetts—Statistics bureau. r 317.44 M4552

Massachusetts bureau of statistics, 1869–1915; a sketch of its history, organization and functions, with a list of its publications and illustrated charts, by C. F. Gettemy. 1915.

Prepared for the Panama-Pacific Exposition.

New York (state)—Secretary of state. r 317.47 N26a

Report of the enumeration of the inhabitants, 1915. 2v. 1915.

v.1. Text.

v.2. Maps of Manhattan, the Bronx, Brooklyn, Lackawanna, Rochester, Buffalo, Tonawanda.

United States—Census bureau. r 317.66 U25

Special census of the population of Tulsa, Oklahoma, April 15, 1915; prepared under the supervision of E. F. Hartley. 1915.

With this is bound its "Special census of the population of Hamtramck, Mich., June 25, 1915."

Ohio—State department. r 317.71 O18

Ohio general statistics, Nov. 16, 1914–June 30, 1915. v.1. 1916.

Plumbe, George Edward. r 317.73 P71

Chicago, the great industrial and commercial center of the Mississippi valley, an area with an annual tonnage of 22,000,000,000 tons. 1912. Civic-Industrial Committee of the Chicago Assoc. of Commerce.

Utah—Immigration, labor and statistics bureau. r 317.92 U29

Report (1st–2d), 1911–14. 1913–15.

9th and 10th reports of the State bureau of statistics.

Statistics of other countries

South American year book; containing full information on the financial, commercial, industrial, political and other affairs of the ten South American republics and of Panama, 1913. 1913. r 318 S72

Argentine year book, 1914. 1914. Grant. r 318.2 A69

Contains also chapters on the republics of Uruguay and Paraguay.

Uruguay—Estadística general, Dirección de. qr 318.9 U27

Anuario estadístico, 1907–12. v.21, pt.2, v.22–23. 1911–15.

For v.19–v.20, pt.1 see preceding catalogue, v.6.

New Zealand—Registrar-general's office. qr 319.3 N26r

Report on the results of a census of New Zealand taken for the night of the 2d April 1911. 1913.

For earlier reports see preceding catalogue, v.4, 6.

Australia—Commonwealth bureau of census and statistics. r 319.4 A938

Official year book of the commonwealth of Australia, containing authoritative statistics for the period 1911–14 and corrected statistics for the period 1788 to 1900. v.5–8. [1912–15.]

For v.1–4 see preceding catalogue, v.6.

Official year book of South Australia, 1912–13. v.1–2. 1912–13. r 319.42 O16

Issued by the commissioner of crown lands of South Australia.

Yearbook of South Australia, 1911. r 319.42 Y21

For volume for 1910 see preceding catalogue, v.6.

320 Political science

Howard, George Elliott.

r 320 H84

Present political questions; an analytical reference syllabus. 1913. University of Nebraska.

"Select bibliography," p.122-184.

Issued by the Department of political science and sociology, University of Nebraska. Questions of public interest, outlined and furnished with lists of reference literature for the use of college instructors.

Morley, John.

320 M91

Notes on politics & history; a university address. 1914. Macmillan.

With amazing brevity Lord Morley discusses the chief elements of politics—monarchy, republicanism, the development of the cabinet, the rise and power of the press—and he illustrates each point by concrete examples. He takes up the various methods of writing history, touches upon its unity, upon the influence of churches in determining secular politics, upon nationality, science and progress. In conclusion he considers modern theories of the state and the chief exemplars of different schools—Mazzini, Cavour and Bismarck. The survey shows Lord Morley's sagacity, breadth of view and clearness of style. *Condensed from Nation, 1914.*

Treitschke, Heinrich Gotthard von.

r 320 T71

Selections from Treitschke's lectures on politics; tr. by A. L. Gowans. [1914.] Stokes.

As apostle of the doctrines of militarism and world empire, Treitschke has had an enormous influence on German thought and German policy. These selections set forth his conceptions of the nature and functions of the state, both as an abstract idea and also as applied to European politics.

Theory of the state

Bentley, Arthur Fisher.

320.1 B44

The process of government; a study of social pressures. 1908. University of Chicago Press.

"His method is critical rather than constructive...and he expressly disclaims any intention of elaborating a complete theory of politics or society. What he does...is to show the inadequacy and futility of theories...and to insist upon the need of a minute study of actual social processes before philosophizing about them." *Nation, 1908.*

Christensen, Arthur.

320.154 C45

Politics and crowd-morality; a study in the philosophy of politics; tr. from the Danish by A. C. Curtis. [1915.] Dutton.

"Notable study of the shortcomings of democratic government." *Nation, 1916.*

In the author's opinion, "the reason for the backward state of political morality is to be found in the fact that politics under absolutist, no less than under aristocratic and under popular forms of government, is founded on the crowds, and the ethical development of the crowds must, in consequence of their peculiar psychological conformation, proceed...more slowly than that of individuals." *Preface.*

Ford, Henry Jones.

320.15 F76

Natural history of the state; an introduction to political science. 1915. Princeton University Press.

"List of authorities," p.179-182.

Author is (1915) professor of politics in Princeton University.

The book is a "suggestive attempt to construct, from a study of such facts...of biology, anthropology, and philology as relate to the origin of man, a scientific theory of the origin and nature of the state. Briefly stated, the theory affirms that the state is as properly to be regarded as an organism as is any form of animal life; that it has its origin in the formation of communities among animals earlier than man; and that such communities...subordinated individuals to the general good, and developed, by processes of social adaptation, particular social institutions." *Nation, 1915.*

Hill, David Jayne.

320.1 H58p

The people's government. 1915. Appleton.

Contents: The state as an embodiment of force.—The state as a human ideal.—Law as a sovereign decree.—Law as mutual obligation.—The citizen as a law-maker.—The citizen as subject to law.

More, Sir Thomas.

r 320.1 M88

Utopia; or, The happy republic; a philosophical romance, to which is added "The new Atlantis," by Lord Bacon, with a preliminary discourse containing an analysis of Plato's Republic, &c., and copious notes by J. A. St. John. 1845. Bohn.

Rousseau, Jean Jacques.

320.1 R77c

Contrat social; ou, Principes du droit politique.

Contents also: Si le retablisement des sciences et des arts a contribué à épurer les mœurs.—Quelle est l'origine de l'inégalité parmi les hommes, et si elle est autorisée par la loi naturelle?—Lettre à M. D'Alembert sur son article Genève, dans le septième volume de l'encyclopédie, et particulièrement sur le projet d'établir un théâtre de comédie en cette ville.—Considérations sur le gouvernement de Pologne et sur sa réformation projetée en avril 1772.—J. J. Rousseau à M. De Beaumont.

Essays

Brown, William Garrott.

320.4 B79

The new politics, and other papers. 1914. Houghton.

Other papers: Prophetic voices about America.—The white peril; the immediate danger of the negro.—The South and the saloon.—President Taft's opportunity.—Greetings to the presidents.

Butler, Nicholas Murray.

320.4 B97

Why should we change our form of government? studies in practical politics. 1912. Scribner.

Contents: Why should we change our form of government?—Business and politics.—Politics and business.—The call to citizenship.—Alexander Hamilton.—The revolt of the unit.

Croly, Herbert David, (*pseud.* William Herbert).

320.4 C88p

Progressive democracy. 1914. Macmillan.

"Subjects to a thorough, detailed analysis the evolution and principles of American democracy, in an attempt to answer the questions whether any substitute is needed for the traditional system and whether the recent progressive movement offers any prospects of meeting the requirements. Both of these questions the author, writing as a Progressive, answers affirmatively, with entire candor and without prejudice." *A. L. A. book-list*, 1915.

Moore, John Bassett.

320.4 M87

Four phases of American development. 1912. Johns Hopkins Press.

Contents: Federalism.—Democracy.—Imperialism.—Expansion.
General survey and analysis of four important movements in American political history.

Mun, Adrien Albert Marie, *comte* de.

320.4 M96

Pour la patrie. 1912.

Contents: Le coup d'Agadir.—Les négociations.—L'accord franco-allemand.—Le réveil du pays.—Les avertissements suprêmes.—La veillée des armes.

Rey, Étienne.

320.4 R372

La renaissance de l'orgueil français. 1912.

Contents: Historique.—La guerre et la paix.—La république et les partis.—La jeunesse.—La patrie.

Spencer, Herbert.

320.4 S74

The man versus the state. 1884. Williams.

Contents: The new toriyism.—The coming slavery.—The sins of legislators.—The great political superstition.

Reprinted from "Contemporary review."

Straus, Oscar Solomon.

320.4 S91

The American spirit [and other addresses]. 1913. Century.

Other addresses: Humanitarian diplomacy of the United States.—American commercial diplomacy.—Venezuela and the Monroe doctrine.—Growth of American prestige.—Citizenship and protection of naturalized citizens abroad.—Our diplomacy with reference to our diplomatic and consular service.—The United States and Russia.—Our commercial age.—Commerce and international relations.—Commerce and labor.—The peace of nations and peace within nations.—Religious liberty in the United States.—The first settlement of the Jews in the United States.—America and the spirit of American Judaism.—A college commencement in Turkey.—Roosevelt; his catholicity and statesmanship.—Baron Maurice de Hirsch.—General Baron T. Kuroki, of the Japanese army.—Cardinal Farley.—William Lyne Wilson; a tribute.—Edward Morse Shepard; a tribute.—John Hay; a tribute.

Essays and addresses illustrating different phases of the American spirit as manifested in our economic and national life and international relations.

Wilson, Woodrow.

320.4 W77

The new freedom; a call for the emancipation of the generous energies of a people. 1913. Doubleday.

Contents: The old order changeth.—What is progress?—Freemen need no guardians.—Life comes from the soil.—The parliament of the people.—Let there be light.—The tariff: "protection," or special privilege?—Monopoly or opportunity?—Benevolence or justice?—The way to resume is to resume.—The emancipation of business.—The liberation of a people's vital energies.

Comprises the more significant portions of President Wilson's campaign speeches.

Periodicals. History

Equity; quarterly, 1910–date. v.12–date. 1910–date. r 320.5 E69

Continues the "Direct legislation record," the "Referendum news" and the "Proportional representation review."

v.12–15, 1910–13, title reads "Equity series."

Political science quarterly; index, v.1–30, 1886–1915. r 320.5 P76

For volumes of magazine see preceding catalogue, v.1.

Barker, Ernest.

320.9 B24

Political thought in England from Herbert Spencer to the present day. [1915?] Holt. (Home university library of modern knowledge.)

"Bibliography," p.252–254.

Gooch, George Peabody.

320.9 G62

History of English democratic ideas in the 17th century. 1912.

Stechert.

Anastatic reprint of the edition, Cambridge 1898.

History of the development of English political thought from the reformation to the beginning of the 18th century.

Hobhouse, Leonard Trelawney.

320.9 H65

Liberalism. [1911.] Holt. (Home university library of modern knowledge.)

"Bibliography," p.252.

A general survey of the social structure of former civilizations and a discussion of the various kinds of liberty which liberalism fosters, lead up to a review and estimate of liberalism in England, with special reference to its influence on industrial and social questions.

321 Form of state

Adams, Brooks.

321.092 A21

Theory of social revolutions. 1913. Macmillan.

Contents: The collapse of capitalistic government.—The limitations of the judicial function.—American courts as legislative chambers.—The social equilibrium.—Political courts.—Inferences.

Mr Adams believes that the equilibrium of society shifts as new social forces appear and that the necessary adjustment to unfamiliar conditions brings about a social convulsion, "sometimes warlike and sometimes benign," which results in the evolution of new governing classes and reorganization of the social system. The administrative difficulties of the government furnish abundant material for illustration of his principles.

Ferguson, William Scott.

321 F38

Greek imperialism. 1913. Houghton.

Contents: Imperialism and the city-state.—Athens; an imperial democracy.—From Sparta to Aristotle.—Alexander the Great and world monarchy.—The Ptolemaic dynasty.—The Seleucid empire.—The empire of the Antigonids.

"Select bibliography" at the end of each chapter.

Seignobos, Charles.

321.3 S45

The feudal régime; translation ed. by E. W. Dow. 1908. Holt.
(Historical miscellany.)

Short descriptions, intended especially for collateral reading in history classes, of the social organization prevailing in Europe from the 10th to the 13th century.

Republic. Democracy

Cleveland, Frederick Albert.

321.8 C580

Organized democracy; an introduction to the study of American politics. 1913. Longmans. (American citizen series.)

"Select bibliography of organized democracy," p.23-36; "References" at the beginning of many of the chapters.

"Good working handbook or college text, depicting with much detail the evolution of popular sovereignty in the United States. The author believes that the demand for efficiency in government will be met only by administering the government as a corporation in which accounts are kept according to modern ideas. Rewritten and enlarged from *Growth of democracy in the United States*." *A. L. A. booklist*, 1913.

Faguet, Émile.

321.8 F13

The cult of incompetence; tr. from the French by Beatrice Barstow, with an introduction by Thomas Mackay. 1912. Dutton.

Contents: The principles of forms of government.—Confusion of functions.—The refuges of efficiency.—The competent legislator.—Laws under democracy.—The incompetence of government.—Judicial incompetence.—Examples of incompetence.—Manners.—Professional customs.—Attempted remedies.—The dream.

Strong and effective indictment of democracy in government.

Howard, George Elliott.

r 321.8 H84

Comparative federal institutions; an analytical reference syllabus. 1907. University of Nebraska.

Contents: Federal institutions in Greece, Italy and western Europe.—Origin and character of the federal constitution of the United States.—Origin and character of the federal constitution of Switzerland.—Origin and character of the federal constitution of the Dominion of Canada.—Origin and character of the federal constitution of the Australian commonwealth.

Contains many bibliographies.

Issued by the Department of political science and sociology of Nebraska University.

Hughes, Charles Evans.

321.8 H89

Condition of progress in democratic government. 1910. Yale University Press. (Yale lectures on the responsibilities of citizenship.)

Linton, William James. 321.8 L72

The English republic; ed. with introduction and notes by Kineton Parkes. 1891. Sonnenschein. (Social science series.)

Contents: Republican principles.—Republican measures.—The suffrage.—Methods of government.—The republic and democracy.—Slavery and freedom.—Religion, genius and republicanism.—Liberty and equality.

Essays reprinted from the "English republic," a magazine begun by Mr Linton in 1851 as an exposition of the principles of republicanism.

Lowell, Abbott Lawrence. 321.8 L95

Public opinion and popular government. 1913. Longmans. (American citizen series.)

Appendixes contain Results of the referendum and initiative in Switzerland.—Results of the referendum and initiative in America.

"Deals with the most difficult and the most momentous question of government,—how to transmit the force of individual opinion and preference into public action... This process inevitably leads to a study both of representative action and of the various forms of direct legislation." *Introductory note.*

Sedgwick, Arthur George. 321.8 S44

The democratic mistake; Godkin lectures of 1909 delivered at Harvard University. 1912. Scribner.

Lectures delivered under the title "Some unsettled questions relating to popular government."

Author believes it is a mistaken theory that frequent elections and short terms are the best means of securing responsibility in government. He maintains that this end can be obtained only through security of tenure.

Taft, William Howard. 321.8 T13

Popular government; its essence, its permanence and its perils. 1914. Yale University Press.

Contents: The meaning of "We, the people of the United States," in the preamble of the constitution.—The representative system.—The initiative and the referendum.—The initiative, the referendum, the recall.—The direct primary.—"In order to form a more perfect union."—"To establish justice."—The selection and tenure of judges.—Public need of educated lawyers and judges; The necessity and advantage of judge-made laws.—"To insure domestic tranquillity, provide for the common defense."

Weyl, Walter Edward. 321.8 W58

The new democracy; an essay on certain political and economic tendencies in the United States. 1912. Macmillan.

"Penetrating, eloquent and witty analysis of our present social organization and shrewdly developed and carefully considered speculations as to its probable growth in the direction of a pure democracy. Mr. Weyl... is an inquirer, skilfully cross-questioning the past as to its complicity in the present, and alertly examining the present as to its future movements." *Life, 1912.*

Referendum and Recall

Beard, Charles Austin, & Shultz, B. E. comp. 321.8 B34

Documents on the state-wide initiative, referendum and recall. 1912. Macmillan.

The same.....r 321.8 B34

This volume includes all of the constitutional amendments providing for a state-wide system of initiative and referendum now (August 1911) in force, several of the most significant statutes elaborating the constitutional provisions, all of the constitutional amendments now pending adoption, six important judicial decisions, and certain material relative to the state-wide recall. Appendix gives the complete scheme of government suggested by Mr W. S. U'Ren and a committee of Oregon citizens. *Condensed from preface.*

- Chicago University.** 321.8 C43
 The recall (excluding judges); a debate; the constructive and rebuttal speeches of the representatives of the University of Chicago in the 14th annual contests of the Central Debating League against Michigan and Northwestern, Jan. 19, 1912. 1912.
The same.....r 321.8 C43
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 Being v.10, p.79-92, of the "Michigan law review."
- Gardner, Augustus Peabody.** r 321.8 G18
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- Johnsen, Julia E. comp.** 321.8 J35
 Selected articles on the recall. 1911. Wilson.
The same.....r 321.8 J35
- Munro, William Bennett, ed.** 321.8 M96
 The initiative, referendum and recall. 1912. Appleton. (National Municipal League series.)
 "Sources and literature," p.342-348.
 Sixteen articles that explain the methods of direct legislation, trace the history of its development and give concisely the good and the bad features of the measures and the results of their operation in various places throughout the country.
- National Economic League, Boston.** 321.8 N15
 Initiative and referendum; arguments pro and con. 1912.
 "Bibliography," p.72.
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- North Carolina University.** r 321.8 N45
 Initiative and referendum. [1913.] (Extension series, no.5.)
Query: Resolved, That the constitution of North Carolina should be so amended as to allow the initiative and referendum in state-wide legislation.
 "Bibliography of the initiative and referendum," p.58-61.
- Oberholtzer, Ellis Paxson.** 321.8 O12
 Referendum in America, together with some chapters on the initiative and the recall. 1911. Scribner.
- Phelps, Edith M. comp.** 321.8 P48a2
 Selected articles on the initiative and referendum. 1914. Wilson.
 (Debaters' handbook series.)
The same.....r 321.8 P48a
 "Bibliography," p.17-42.
- Phelps, Edith M. comp.** r 321.8 P48s
 Selected articles on the recall, including the recall of judges and judicial decisions. 1915. Wilson. (Debaters' handbook series.)
 "Bibliography," p.21-48.
- United States—Library of Congress.** qr o16 U25b v.4
 Select list of references on the initiative, referendum and recall; comp. under the direction of H. H. B. Meyer. 1912.
 Bound with other bibliographies issued by the Library of Congress.

Walsh, Thomas James.

r 321.8 W18

Recall of judges; address delivered before the Washington State Bar Association, Spokane, Wash., July 28, 1911. 1911. (United States. 62d cong. 1st sess. Senate. Doc. no.100.)

With this is bound "Election and recall of federal judges," by R. L. Owen.

Washington (state) University.

r 321.8 W27

Recall of judges; an outline for debate. 1912. (University extension series, no.4.)

"Sources of information," p.11-13.

White, John Z.

r 321.8 W63

Direct legislation; the initiative and referendum. [1910?] Timby. Pamphlet.

Wilcox, Delos Franklin.

321.8 W71

Government by all the people; or, The initiative, the referendum and the recall as instruments of democracy. 1912. Macmillan.

"A defense of direct legislation that is up to date, fair in tone, progressive in thought and very interestingly written. The author bases his argument upon the conception 'that government is a public cooperation, not a private industry; that it is not an institution where a few turn out the goods which certain people want and others do not. All men produce government; all men consume it.'" *A. L. A. booklist*, 1912.

323 The state and the individual

Burgess, John William.

323 B89

Reconciliation of government with liberty. 1915. Scribner.

Traces "the development of the idea and the fact of the state through many centuries of Asiatic, European, and American history. Professor Burgess believes in that balance between authority and freedom that protects the individual in the exercise of as much unrestrained liberty of action, thought, and speech as is consistent with social stability. He sees in the tendency to increase the authority and functions of those holding public office a very real menace to the liberty...of democracies." *Review of reviews*, 1915.

Emery, Lucilius Alonzo.

323.42 E58

Concerning justice. 1914. Yale University Press. (Storrs lectures.)

"The author, a former chief justice of the Supreme court of Maine, considers first such abstract matters as the nature of justice, the problem, and the meaning of freedom, and then makes a plea for the maintenance of an independent judiciary." *Book review digest*, 1914.

United States—State department.

r 323.6 U25

Compilation of certain departmental circulars relating to citizenship, registration of American citizens, issuance of passports, etc. 1915.

Wilson, Sir Roland Knyvet.

323 W77

The province of the state. 1911. King.

"Maintains the Spencerian theory that the only valid reason for the existence of a state is the certainty of continual strife if every man were to be judge in his cause. Access to this 'justice shop,' as he calls it, should be absolutely free, and the expense it would entail should be made up by curtailment of the action of the state in other directions. The *bête noire* of the author is popular education, provided by the state; even the earliest and most limited of the Education Acts is pronounced to have been a step in the wrong direction. There is scarcely any attempt made to sustain the theory on theoretical or philosophical grounds." *Nation*, 1911.

324 Suffrage. Elections

General works

- Fanning, Clara Elizabeth, comp.** 324 F21s
 Selected articles on direct primaries. 1911. Wilson. (Debaters' handbook series.)
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The same..... r 324 F21
- Michigan—State library.** r 324 M66
 Laws of the various states relating to presidential primaries. 1912.
 Compiled by Legislative reference department.
- Mohn, Earl John.** r 324 M77
 Advisability of electing United States senators by popular ballot. 1909. Georgetown University. (Mallory prize essay.)
- Pennsylvania, Republican State Committee, 1912.** r 324 P39
 Tentative draft of an act regulating primary elections in Pennsylvania; prepared by the Legislative and executive committee of the Republican State Convention and offered to the public for criticism and suggestion. [1912. Pittsburgh.]
- Scotus Viator, (pseud. of Robert William Seton-Watson).** 324.439 S43a
 Absolutism in Croatia. 1912. Constable.
 Severe indictment of the Magyar oppression of Croatia. Occupied principally with an account of the conduct of the elections to the Croatian Diet, held in December 1911.
- United States—Library of Congress.** qr o16 U25b v.4
 Additional references relating to popular election of senators; comp. under the direction of H. H. B. Meyer. 1911.
 Bound with other bibliographies issued by the Library of Congress.
 For edition which this supplements see preceding catalogue, v.4.
- United States—Privileges and elections committee.** r 324 U253
 Election of Isaac Stephenson; report, with the hearings held before the subcommittee pursuant to S. res. 136, directing the Committee on privileges and elections, or any subcommittee thereof, to investigate whether corrupt methods and practices were used or employed in the election of Isaac Stephenson as a senator of the United States from the state of Wisconsin. 2v. 1912. (62d cong. 2d sess. Senate. Doc. no.312, v.10-11.)
- United States—Select committee to investigate the** r 324 U25
 election of William Lorimer. (Senate.)
 Election of William Lorimer; hearings before a committee of the Senate of the United States pursuant to S. res. 60, directing a committee of the Senate to investigate whether corrupt methods and practices were used or employed in the election of William Lorimer as a senator of the United States from the state of Illinois. 9v. 1912. (62d cong. 2d sess. Senate. Doc. no.484, v.16-24.)
 v.9 contains general index and digest.

Short ballot

Childs, Richard S.

324.216 C43

Short-ballot principles. 1911. Houghton.

May be considered the official expression of the short-ballot movement, one of the most important and widespread of contemporary political reforms. Its advocates hold that election ballots should be short enough to allow the voter to inform himself of the qualifications of each candidate, that minor administrative officers, as well as the judiciary, should be appointed, not elected, and that the election district should be small.

Cleveland, Municipal Association.

r 324.216 C58

Necessity of the short ballot in Ohio. 1912.

States briefly the principles of the short ballot and urges its adoption in Ohio.

Kales, Albert Martin.

324.216 K11

Unpopular government in the United States. 1914. University of Chicago Press.

"Effective... argument for the short ballot. Presents a good though brief account of governmental reforms by which a reduction of the influence of party bosses has been sought." *A. L. A. booklist*, 1914.

Woman suffrage

324.3 A62

Anti-suffrage essays, by Massachusetts women, with an introduction by Ernest Bernbaum. 1916. (Forum publications of Boston.)

Each essay is preceded by a short biographical sketch of the author by J. A. Haien. "Important anti-suffrage publications," [p.153-154].

Björkman, Frances Maule, *ed.*

324.3 B51

Woman suffrage; history, arguments and results; a collection of seven popular booklets covering together practically the entire field of suffrage claims and evidence; designed especially for the convenience of suffrage speakers and writers and for the use of debaters and libraries. 1913. National Amer. Woman Suffrage Assoc.

Bock, Annie.

r 324.3 B57

Woman suffrage; address opposing an amendment to the constitution of the United States extending the right of suffrage to woman, written for presentation to the Committee on woman suffrage, United States senate. 1913. (United States. 63d cong. 1st sess. Senate. Doc. no.160.)

Fawcett, Mrs Millicent (Garrett).

324.3 F29

Women's suffrage; a short history of a great movement. [1912.] Jack. (People's books.)

"List of books," p.90.

Franklin, Margaret Ladd, *comp.*

r 016.3243 F88

The case for woman suffrage; a bibliography, with an introduction by M. C. Thomas. 1913. National College Equal Suffrage League.

Goodwin, Grace Duffield.

324.3 G63

Anti-suffrage; ten good reasons. 1912. Duffield.

"Brief but authoritative statement of the position taken by anti-suffragists and the chief arguments with which they fortify it... Author is [1912] president of the District of Columbia Association opposed to Woman Suffrage." *A. L. A. booklist*, 1912.

Harrison, Mrs Ethel B. (Harrison). 324.3 H29

The freedom of women; an argument against the proposed extension of the suffrage to women. 1908. Watts.

Hart, Heber Leonidas. 324.3 H31

Woman suffrage, a national danger, with a preface by Lewis Harcourt. 1912. King.

Argument against woman suffrage.

Howe, Mrs Julia (Ward). 324.3 H85

Julia Ward Howe and the woman suffrage movement; a selection from her speeches and essays, with introduction and notes by her daughter, Florence Howe Hall. 1913. Estes.

Mrs Howe was a leader in all forms of work for the advancement of women. These speeches and papers cover nearly half a century in their record of her service.

Howe, Mrs Marie (Jenney). 324.3 H853

An anti-suffrage monologue. 1913. National Amer. Woman Suffrage Assoc.

International Woman Suffrage Alliance. r 324.3 I24

Woman suffrage in practice, 1913; compilers, Chrystal Macmillan [and others. 1913].

Man-Suffrage Association. 324.3 M32

The case against woman suffrage; a manual for speakers, debaters, lecturers, writers and anyone who wants the facts. 1915. (Publication no.12.)

The same r 324.3 M32
"Bibliography of books, pamphlets, papers and other references," p.73-77.

Massachusetts Association Opposed to the Further Extension of Suffrage to Women. r 324.3 M45

[Pamphlets against woman suffrage issued by the Massachusetts association and the New York State Association Opposed to Woman Suffrage.] 1907-10.

Mill, John Stuart. q 324.3 M68

Suffrage for women; speech in the British parliament, May 20, 1867. Equal Suffrage League.

With this are bound: The truth versus Richard Barry; Breaking into the human race, by R. C. Dorr; Twenty-five answers to antis by eminent suffragists.

Three of these pamphlets were issued by the National American Woman Suffrage Association.

Owen, Harold. 324.3 O34

Woman adrift; the menace of suffragism. [1912.] Paul.

Covers thoroughly the whole ground of argument, political, biological and social, against granting the franchise to women.

Pankhurst, Mrs Emmeline (Goulden). 324.3 P219

My own story. 1914. Hearst's International Library Co.

History of the woman suffrage movement in England and a defense of militancy by the English leader who has identified herself with the cause from its beginning.

- Phelps, Edith M.** *comp.* 324.3 P48a2
 Selected articles on woman suffrage. 1916. Wilson. (Debaters' handbook series.)
 "Bibliography," pref. p.17-46.
The same. 1916.....r 324.3 P48a2
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- The Remonstrance;** quarterly, 1910-date. 1910-date. qr 324.3 R33
 Published by the Massachusetts Association Opposed to the Further Extension of Suffrage to Women.
- Robins, Elizabeth,** *afterward Mrs Parkes, (pseud.* 324.3 R54
C. E. Raimond).
 Way stations. 1913. Dodd.
 Account of eight years, 1905 to 1913, in the camp of the English suffragists. The papers forming the volume shows how the author has, in her own phrase, "travelled the road of enlightenment." Beginning with a mild plea that women may be given a hearing, she becomes in the last pages of the book an apologist for militancy.
- Squire, Belle.** 324.3 S77
 Woman movement in America; a short account of the struggle for equal rights. 1911. McClurg.
 Based upon articles written originally for the Sunday issue of the "Chicago daily tribune."
 Contains incidents in the lives of prominent American women, from the time of Anne Hutchinson to the present (1911).
- Taylor, Edward Thomas.** r 324.3 T25
 Equal suffrage in Colorado; speech delivered in the House of representatives, April 24, 1912, in consideration of bill (H. R. 38) to confer legislative authority on the territory of Alaska. 1912. (United States. 62d cong. 2d sess. Senate. Doc. no.722.)
- Tucker, Henry St. George.** 324.3 T81
 Woman's suffrage by constitutional amendment. 1916. Yale University Press. (Storrs lectures.)
The same.....r 324.3 T81
 "My object...is...to show that the attempt to bring about the right of suffrage for women by an amendment to the Constitution...is opposed to the genius of the instrument itself, and subversive of one of the most important principles incorporated in it." *Chapter 1.*
- United States—Judiciary committee.** (House.) r 324.3 U25
 Woman suffrage; hearing before the Committee on the judiciary on H. J. res. 151 and H. J. res. 153, April 19, 1910. 1910. (61st cong. 2d sess. House.)
 324.3 W85
- [**Woman** suffrage; a collection of leaflets on woman suffrage issued by the National American Woman Suffrage Association and by the Pennsylvania Woman Suffrage Association.]
 324.3 W851
- [**Woman** suffrage; a collection of pamphlets on woman suffrage.] 2v. [1910-13.]

Wright, Sir Almroth Edward. 324.3 W93

The unexpurgated case against woman suffrage. 1913. Constable.

From the point of view of an English opponent of the movement. Attempts to prove that woman is physically, morally and intellectually unfit for suffrage. The author's letter of 1912 to the "Times" on "Militant hysteria" is included.

Yale University Debating Association. r 324.3 Y13

Discussion of woman suffrage by the Yale University debating teams in the 1914 triangular debates with Harvard and Princeton. 1914. (Handbook no.1.)

325 Colonies and immigration

Chicago University. q 325 C43

The literacy test for immigrants; a debate, the constructive and rebuttal speeches of the representatives of the University of Chicago in the 18th annual contests of the Central Debating League against Michigan and Northwestern, Jan. 21, 1916. 1916.

"Bibliography," p.57-62.

The same.....qr 325 C43

Committee for Immigrants in America. r 325 C73

Professional course for service among immigrants; prepared for the use of colleges and universities, schools of civics and philanthropy, to fit men and women for service among immigrants; adapted also for study by clubs, institutions and conferences of workers of social organizations. [1915.]

Fairchild, Henry Pratt. 325 F15

Immigration; a world movement and its American significance. 1913. Macmillan.

"Bibliography," p.439-449.

"It is of the American significance of immigration that Mr. Fairchild writes most effectively, although his effort to secure a wider outlook is not wholly fruitless. The value of his conclusions...depends not upon novelty, but rather upon the exactness of the statistical methods by which they are reached. The book is restrictionist in trend, but suggests no specific programme." *North American review*, 1913.

Haskin, Frederic J. 325 H33

The immigrant, an asset and a liability. 1913. Revell.

Presents the salient facts of the immigration problem in America, the coming of immigrant races, their entrance into American life, their relation to industry, education, crime, the white slave traffic, etc. Derived largely from United States government reports.

Kawakami, Kiyoshi Karl. 325 K14

Asia at the door; a study of the Japanese question in continental United States, Hawaii and Canada, with a prologue by Doremus Scudder and an epilogue by H. W. Mabie. 1914. Revell.

By a Japanese newspaper man, a resident of California. Devoted to the removal of racial prejudice. Journalistic in style, clear and interesting, with many descriptive passages and personal incidents but seldom probing beneath the surface. Discusses the recent agitation in California which resulted in the anti-alien law, the question of assimilation, the achievements of certain Japanese in this country and the important place of the Japanese in California industries. *Condensed from Dial*, 1914.

Shurter, Edwin DuBois, & Francis, C. I. ed. r 325 S56

Educational test for immigrants; bibliography and selected arguments. [1914.] (Texas University. Bulletin, extension series, 1914, no.58.)

Immigration. Naturalization

Fowler, Nathaniel Clark. 325.1 F84

How to obtain citizenship; plain and simple directions for the alien or foreigner who would become a citizen of the United States, and much information which will greatly benefit him. 1913. Sully.

Directions for foreigners are in English, Italian, Yiddish, German and French, while the constitution of the United States and other information are not translated.

Hourwich, Isaac Aaronovich. 325.1 H83

Immigration and labor; the economic aspects of European immigration to the United States. 1912. Putnam.

The object of the book is to refute the finding of the Immigration commission in 1910, that European immigration should be restricted in the interest of the American laboring class. Among the leading points which the author seeks to establish in opposition to the contentions of the commission are the following: recent immigration has not increased unemployment, nor displaced native Americans in industry, nor provoked an increase of race suicide, nor set up inferior standards of living, nor underbid the native workers, nor prevented the reduction of the work day, nor hindered labor organization, nor given us our present labor problem.

The same.....r 325.1 H83

325.1 I23

Immigration and the Southern states, from a railway standpoint. 1904. Railway World Pub. Co.

Contents: Introduction.—The Southern railroads and immigration.—The South's need of immigrants.—Railway distribution of immigrants, by F. J. Warne.—Immigration and the South's development, by M. V. Richards.—The South's opportunities for immigrants.—Immigration and the Southern states, by G. A. Park.—South Carolina's immigration department, by E. J. Watson.—Immigration to the South.—The railway immigration department, by S. A. Hughes.

Iowa University. 325.1 I25

Constructive and rebuttal speeches of the representatives of the State University of Iowa in the inter-collegiate debates, 1913-14, against Nebraska [and] Illinois [proposition for debate; resolved: That immigration into the United States should be further restricted by a literacy test]. 1914. Wilson.

"References," p.30-31.

The same.....r 325.1 I25

Jenks, Jeremiah Whipple, & Lauck, W. J. 325.1 J25a

The immigration problem; a study of American immigration conditions and needs. 1913. Funk.

The same. 1912.....325.1 J25

The same. 1913.....r 325.1 J25

This book may be taken as a digest of the forty-two volume report of the Immigration commission [r 325.1 U2537] from the point of view of a distinguished member of the commission, and the expert in charge of industrial investigations. There is much valuable discussion of conditions of living among immigrants, of immigrant communities, of immigrants in various industries, of labor conditions arising out of immigrant conditions, and of special characteristics of certain types of immigrants.

National Conference of Immigration, Land and Labor Officials. r 325.1 N155

Distribution of admitted aliens and other residents; proceedings of the Conference of State Immigration, Land and Labor Officials with representatives of the Division of information, Bureau of immigration and naturalization, Department of commerce and labor, held in Washington, D. C., Nov. 16 and 17, 1911. 1912.

National Liberal Immigration League. r 325.1 N1552
[Publications. 1910-16.]

Protestant Episcopal church—Missionary council r 325.1 P97
of the department of New England.

The people of the Eastern orthodox churches, the separated churches of the East and other Slavs; report of the commission appointed by the missionary department of New England to consider the work of co-operating with the Eastern orthodox churches, the separated churches of the East and other Slavs. 1913.

Presented at the Council of the department held at Providence, R. I., Oct. 23, 1912.

Reely, Mary Katharine, comp. 325.1 R28

Selected articles on immigration. 1915. Wilson. (Debaters' hand-book series.)

Contents: European immigration.—Asiatic immigration.

"Bibliography," p.21-33, 247-252.

The same.....r 325.1 R28

Roberts, Peter, b. 1859. 325.1 R53n

The new immigration; a study of the industrial and social life of southeastern Europeans in America. 1912. Macmillan.

Contents: Inducements and impressions.—Industrial life.—Community conditions.—Social relations.—Assimilation and hindrances.—Conclusions.

The same. 1913.....r 325.1 R53

One of the most intimate and human books on the immigration question that has yet appeared. The author's outlook is sympathetic and hopeful and he concludes that complete assimilation can come only through a radical change of attitude on the part of native-born Americans.

Ross, Edward Alsworth. 325.1 R73

The Old World in the New; the significance of past and present immigration to the American people. 1914. Century.

Contents: The original make-up of the American people.—The Celtic Irish.—The Germans.—The Scandinavians.—The Italians.—The Slavs.—The east European Hebrews.—The lesser immigrant groups.—Economic consequences of immigration.—Social effects of immigration.—Immigrants in politics.—American blood and immigrant blood.

Appeared in "Century magazine," v.87-88, Nov. 1913-Oct. 1914.

"Professor Ross analyzes the various races and elements that make up our foreign population and finds in the new immigration a source of grave economic and social and political danger." *A. L. A. booklist*, 1914.

United States—Immigration bureau. r 325.1 U2531

Annual report of the commissioner-general, for the fiscal years, 1911/12-1912/13. 1913-14.

The same, 1912/13-date. 1914-date. (In United States—Labor department. Reports, 1913-date.).....r 331 U25rep

In 1903 the Bureau of immigration and naturalization was transferred from the

United States—Immigration bureau—continued. **r 325.1 U2531**

Treasury department to the Department of commerce and labor, and in 1913 to the Department of labor. It was then divided into two separate bureaus, Immigration bureau and Naturalization bureau.

For earlier reports see preceding catalogue, v.4, 6.

United States—Immigration bureau. **r 325.1 U2531i**

Immigration laws, rules of Nov. 15, 1911, with amendments, Feb. 12, 1916. 1916.

United States—Immigration bureau. **r 325.1 U2531t2**

Treaty, laws and regulations governing the admission of Chinese; rules approved Oct. 15, 1915.

By act of March 4, 1913, the Immigration and naturalization bureau was divided into two separate bureaus, Immigration bureau and Naturalization bureau.

United States—Immigration commission, 1907-10. **r 325.1 U2537**

Reports. 42v. 1911. (61st cong. Senate doc.)

v.1-2. Abstract of reports.

v.3. Statistical review of immigration, 1820-1910.—Distribution of immigrants, 1850-1900.

v.4. Emigration conditions in Europe.

v.5. Dictionary of races or peoples.

v.6-25. Immigrants in industries, by W. J. Lauck.

v.26-27. Immigrants in cities.

v.28. Occupations of the first and second generations of immigrants in the United States.—Fecundity of immigrant women.

v.29-33. The children of immigrants in schools.

v.34-35. Immigrants as charity seekers.

v.36. Immigration and crime.

v.37. Steerage conditions.—Importation and harboring of women for immoral purposes.—Immigrant homes and aid societies.—Immigrant banks.

v.38. Changes in bodily form of descendants of immigrants.

v.39. Federal immigration legislation.—Digest of immigration decisions.—Steerage legislation, 1819-1908.—State immigration and alien laws.

v.40. The immigration situation in other countries; Canada, Australia, New Zealand, Argentina, Brazil.

v.41. Statements and recommendations submitted by societies and organizations interested in the subject of immigration.

v.42. Index of reports.

United States—Naturalization bureau. **r 325.1 U2531n**

Naturalization laws and regulations, Dec. 19, 1914.

United States—Naturalization bureau. **r 325.1 U2531p**

Proceedings of the naturalization reception held at Philadelphia, May 10, 1915. 1915.

United States—Naturalization bureau. **r 325.1 U2531s**

Syllabus of the naturalization law; an aid to public-school teachers in the instruction of aliens in the requirements of the naturalization law. 1916.

United States—President. (William Howard Taft.) **r 325.1 U2538**

Regulation of the immigration of aliens; message transmitting, without approval, the bill (S. 3175) entitled "An act to regulate the immigration of aliens to and the residence of aliens in the United States." [1913.] (62d cong. 3d sess. Senate. Doc. no.1087.)

Warne, Frank Julian.

325.1 W23

The immigrant invasion. 1913. Dodd.

Contents: Invasions and invaders.—Causes of immigration.—The invasion of Slavs and Italians.—Distribution; the older immigration.—Immigration and the South.—Distribution; the newer immigration.—Characteristics of immigrants.—Standards of living.—Some effects of immigration.—Immigration and the labour union.—Present-day immigration.—The future of immigration; the old.—The future of immigration; the new.—The promise of America.—What of the future?

"Books of reference," p.317-318.

Inquiry into the causes and effects of immigration and the distribution and standards of living among the immigrants. The author advocates restrictive legislation.

Warne, Frank Julian.

325.1 W23t

Tide of immigration. 1916. Appleton.

A plea for the restriction of immigration through the adoption of a literacy test.

"The fundamental basis of a national immigration policy...should be economic assimilation...[This] means that immigrants shall not be admitted in such large numbers as to prevent American wages from keeping pace with the steady increase in the American standard of living." *Chapter 28.*

Washington (state) University.

r 325.1 W27

Immigration; an outline for debate. 1913. (University extension series, no.9.)

"Sources of information," p.17-20.

Colonization. Imperialism

Bryce, James.

325.3 B84

Ancient Roman empire and the British empire in India, and The diffusion of Roman and English law throughout the world; two historical studies. 1914. Milford.

Re-issued from his "Studies in history and jurisprudence." Revised and brought up to date by the inclusion of the latest statistics and by references to recent legislation. In one essay he draws an instructive parallel between the Roman and British systems of imperial conquest and administration, and in the other a similar parallel between the steady extension of the Roman and British systems of law. *Condensed from Nation, 1914.*

The same. 1901. Oxford University Press. (In his *Studies in history and jurisprudence*, p.1-123.) 340 B84

Cramb, John Adam.

325.3 C86

Origins and destiny of imperial Britain and 19th century Europe. 1915. Dutton.

Contains a biographical note of the author.

Lectures directly prompted by the Boer war.

"He finds the whole earth impressed by the majesty of the ideal of Imperial Britain, and in many rather fanciful passages we get glimpses of the British race scattered over the whole world becoming more and more conscious of its destiny, seeking more and more for some means of fulfilling 'its fate appointed task.'" *Outlook (London), 1915.*

Egerton, Hugh Edward.

325.3 E350

Origin & growth of the English colonies and of their system of government. 1904. Clarendon Press.

Bibliography at the end of each chapter.

Being an introduction to Lucas's "Historical geography of the British colonies" (911 L96).

325.3 G32

Germany's war mania; the Teutonic point of view as officially stated by her leaders; a collection of speeches and writings by the German emperor, the German crown prince, V. Bethmann-Hollweg, Prince von

- Germany's war mania—continued.** 325.3 G32
 Bülow, Gen. von Bernhardi, Gen. von der Goltz, Gen. von Clausewitz, Prof. von Treitschke, Prof. Delbrück. [1915.] Dodd.
 "Possesses interest as a collection of ante-bellum documents." *Dial*, 1915.
- Kirkpatrick, Frederick Alexander.** r 325.3 K28
 Imperial defence and trade. 1914. (Royal Colonial Institute monographs, no.1.)
 "Bibliography," p.107.
 Discusses the interaction between the economic interests of a State and its foreign relations, with special reference to the question whether the self-governing States of the British Empire could coöperate permanently for the purpose of defence without coöperating for the purpose also of trade.
- Reich, Emil.** 325.3 R29
 Germany's madness. 1914. Dodd.
 Also published under the title "Germany's swelled head."
 "[Author] for many years identified himself with British interests. His book... published in 1907... was prophetic, and its reissue, with irrelevant matter omitted, is timely. He summarises the pretensions of Germany, and gives full information of the activities of the German authorities." *Academy*, 1914.
- Teich, Emma Louise, comp.** 325.3 T27
 Selected articles on independence for the Philippines. 1913. Wilson. (Debaters' handbook series; abridged.)
 "Bibliography," p.6-10.
The same..... r 325.3 T27
- United States—Insular affairs committee. House.** r 325.3 U25
 Independent government for the Philippines; report (to accompany H. R. 22143). [1912.] (62d cong. 2d sess. House. Report no.606.)
- Usher, Roland Greene.** 325.3 U28
 Pan-Germanism. 1913. Houghton.
 "Bibliography," p.311-314.
 The author is of those who believe it is Germany's intention to dominate Europe and the world. His book is an attempt to describe the progress already made toward the realization of that ambition.

Foreigners in America

- American-Irish Historical Society.** r 325.73 A51
 Journal, 1912-date. v.11-date. 1912-date.
 The purpose of the society is to make better known the Irish chapter in American history.
 Beginning with v.15, 1916, issued quarterly.
 For v.4, 8-10 see preceding catalogue, v.4, 6.
- Antin, Mary, afterward Mrs Grabau.** 325.73 A63
 They who knock at our gates; a complete gospel of immigration. 1914. Houghton.
Contents: The law of the fathers.—Judges in the gate.—The fiery furnace.
 Appeared in the "American magazine," v.77, March-May 1914.
 Defends with fervor the immigrant's right to the enjoyment of American freedom and shows the worth of his contribution to our civic and social life.
- Avery, Elizabeth H.** r 325.73 A95
 Influence of French immigration on the political history of the United States. [189-? Journal Observer print.]
 Thesis, University of Minnesota.
 "Bibliography," p.70-75.
 Traces the influence exerted by men of Huguenot descent.

Bek, William Godfrey.

qr 325.73 B39

German Settlement Society of Philadelphia and its colony, Hermann, Mo. 1907. Americana Germanica Press. (Americana Germanica; monographs, no.5.)

Thesis for Ph. D., University of Pennsylvania.

The Deutsche Ansiedlungs-Gesellschaft was organized at Philadelphia in 1836, with the object of founding a colony in the United States which should be characteristically German. The following year the settlement at Hermann, Mo. was established. The population is still largely German and Mr Bek gives an account of the education, government, industries, etc. of the town at the present day.

Bolton, Charles Knowles.

325.73 B61

Scotch-Irish pioneers in Ulster and America. 1910. Bacon.

Chiefly biographical and genealogical, dealing only with the forerunners and extending somewhat beyond the period of the migration of 1718. Not altogether attractive in style, but based on considerable independent research. *Condensed from Nation, 1911.*

Burgess, Thomas.

325.73 B89

Greeks in America; an account of their coming, progress, customs, living and aspirations, with an historical introduction and the stories of some famous American-Greeks. 1913. Sherman.

"Bibliography," p.235-245.

Discusses impartially the modern Greek in his relation to American civilization with a view to bringing about a better understanding of this interesting race. Intended for general readers as well as for students of the immigration problem.

Carr, John Foster.

325.73 C22g

Guida degli Stati Uniti per l'immigrante italiano; pubblicata a cura della Società delle Figlie della Rivoluzione Americana, sezione di Connecticut. 1910. Doubleday.

Carr, John Foster.

325.73 C22

Guide to the United States for the Jewish immigrant; a nearly literal translation of the second Yiddish edition. 1912.

Published under the auspices of the Connecticut Daughters of the American Revolution.

Carr, John Foster.

325.73 C22p

Przewodnik po Stanach Zjednoczonych do użytku polskich imigrantów. 1912.

Published under the auspices of the Connecticut Daughters of the American Revolution.

Fairchild, Henry Pratt.

325.73 F15

Greek immigration to the United States. 1911. Yale University Press.

"Bibliography," p.265-270.

Very detailed investigation covering all phases of the subject—the physical environment, national character, religion and language of the Greeks; causes, sources and means of emigration; the economic and social conditions of the Greeks in the United States; and the effects of immigration on the immigrants themselves, on the home country and on the country of their adoption.

Fischer, Hans, (pseud. Kurt Aram).

325.73 F52

Mit 100 mark nach Amerika, von Kurt Aram. 1912.

"Auszug aus der verfassung der Vereinigten Staaten," p.180-188.

A German periodical furnished a steerage ticket and the obligatory twenty-five dollars (100 marks) to the author to come to America to find how a German without means would fare here. The letters in which he reported his progress to the "Gartenlaube" form the bulk of this very practical little book. It is a simple record of his experiences as an immigrant in New York city and includes a catechism for immigrants and a synopsis of the American constitution.

Ford, Henry Jones.

325.73 F76

The Scotch-Irish in America. 1915. Princeton University Press.

"List of authorities consulted," p.593-596.

"Commences with the story of the Ulster plantation and the great emigration to America; then proceeds with what is perhaps its most interesting and valuable portions, the tracing of the influence of the Scotch-Irish on American life and institutions, specially on the spread of Presbyterianism, the development of education, and the movement for American independence." *A. L. A. booklist*, 1915.

Gulick, Sidney Lewis.

325.73 G96

American Japanese problem; a study of the racial relations of the East and the West. 1914. Scribner.

Dr Gulick reviews clearly and comprehensively the Japanese situation in California (1914) and the problems of immigration and assimilation of eastern races. He believes there is a reasonable and honorable solution to the difficulty in a new American oriental policy, which he outlines.

The same.....r 325.73 G96

Immigration Restriction League.

r 325.73 I23

Publications. no.2-65. 1894-1915.

Many numbers wanting.

Johnson, Stanley Currie.

325.7 J36

History of emigration from the United Kingdom to North America, 1763-1912. 1913. Routledge. (London School of Economics and Political Science. Studies in economics and political science.)

"Bibliography on emigration from the United Kingdom to North America," p.356-378.

Thesis for D. Sc., University of London.

Careful study of the causes, economic value and problems of emigration from Great Britain, as well as an account of the actual exodus during these years.

Joseph, Samuel.

325.73 J44

Jewish immigration to the United States from 1881 to 1910. 1914. (Columbia University, New York. Studies in history, economics and public law, v.59.)

The same. (In Columbia University, New York. Studies in history, economics and public law, v.59.).....r 330 C72 v.59

"Gives briefly and clearly an analysis of the economic, social, and political conditions in Russia, Roumania and Austria-Hungary, which bear upon the Jewish question; the...position of the Jews in those countries, and their history for the past thirty years. Then comes a discussion of the movement and characteristics of the Jewish immigration to the United States, followed by...carefully prepared...statistical tables." *Survey*, 1914.

Kellor, Frances Alice.

325.73 K16

Straight America; a call to national service. 1916. Macmillan. (Our national problems.)

Contents: What is the matter with America?—Americanism.—The native American.—America-made citizens.—The popular vote.—National unity.

Outlines a fine practical program of Americanization—the spreading of English classes for foreigners, the improvement of naturalization laws, the establishment of real Federal citizenship. The author's conception of national unity includes military preparedness, industrial mobilization and universal military service.

Maginniss, Thomas Hobbs.

325.73 M253

The Irish contribution to America's independence. 1913. Doire.

Author believes that the share of the Irish in American colonization has been much underrated. Accordingly he shows the extent of immigration, which resulted from English oppression, the activity of Irish settlers in Pennsylvania, New England, and other localities, and the part taken by the Irish in the American Revolution. Many lists of names compiled from marriage and army records and other sources.

- Millis, Harry Alvin.** 325.73 M69
The Japanese problem in the United States; an investigation for the Commission on relations with Japan appointed by the Federal Council of the Churches of Christ in America. 1915. Macmillan.
The same.....r 325.73 M69
- North American Civic League for Immigrants.** r 325.73 N45an
Annual report, 1910/11-1914/15.
- O'Connell, J. D.** r 325.73 O135
"Scotch-Irish" delusion in America; O'Connell's historical reply to President Eliot of Harvard College; Bishop Satterlee admits his error. 1897.
Appeared in the New York "Sun," Oct. 18, 1896, and other newspapers.
Pamphlet containing the letters relating to this controversy.
- Plass, Anna Alida.** 325.73 P68
Civics for Americans in the making. 1912. Heath.
Reading lessons on the city, state and national government, United States history and voting and a vocabulary translated into Italian, German, Swedish, French, Polish, Greek and Yiddish.
- Preziosi, Giovanni.** 325.73 P93
La "Dante Alighieri" e l'emigrazione italiana negli Stati Uniti. 1911.
- Reid, Whitelaw.** qr 325.73 R31
The Scot in America and the Ulster Scot. 1911.
Opening address, before the Edinburgh Philosophical Institution, Nov. 1st, 1911.
- Seidensticker, Oswald.** r 325.73 S45
Geschichte der Deutschen Gesellschaft von Pennsylvanien, von der zeit der gründung, 1764, bis zum jahre 1876. 1876.
"Biographische notizen über die beamten der gesellschaft," p.263-311.
- Sekely, B. A.** r 325.73 S46
Immigrant labor and the restriction of immigration. [1912.] National Liberal Immigration League.

326 Slavery. Negroes

Slavery

- Allard, Paul.** 326 A41
Esclaves, serfs et mainmortables. 1894.
History of slavery from earliest times to the end of the 18th century.
- Fletcher, John, of Louisiana.** r 326 F63
Studies on slavery, in easy lessons. 1852. Warner.
Defense of slavery as an institution.
- Hensel, William Uhler.** 326 H45
The Christiana riot and the treason trials of 1851; an historical sketch, with some account of the commemoration of these events, Sept. 9, 1911. 1911. New Era Printing Co.
Account of the escape of slaves from the Gorsuch homestead in Maryland in 1849, the pursuit of the fugitives and the raid on the Parker house in Christiana, Pa. where they had taken refuge, the resulting treason trials and the political effects of the incident.

Herbert, Hilary Abner.

326 H46

Abolition crusade and its consequences; four periods of American history. 1912. Scribner.

Account of the antislavery movement from the Southern point of view. Devoted principally to the period 1831-60, with a brief survey of the Civil war; to the period of reconstruction and the restoration of self-government in the South. In tracing the history of emancipation sentiment, the author points out that a promising trend in favor of emancipation prevailed widely in the South until the radical teachings of the abolitionists caused a reactionary movement. *Condensed from American historical review, 1912.*

Quaife, Milo Milton.

r 326 Q16

Doctrine of non-intervention with slavery in the territories. 1910.

"Bibliography," p.147-150.

Thesis for Ph. D., University of Chicago.

Examines the character and traces the history of the political policy and the constitutional doctrines associated under this name.

Turner, Edward Raymond.

326 T86

The negro in Pennsylvania; slavery, servitude, freedom, 1639-1861. 1911. Amer. Historical Assoc. (Prize essays of the American Historical Association, 1910.)

To this essay was awarded the Justin Winsor prize in American history for 1910.

"Bibliography," p.255-294.

United States—State department.

r 326 U2538

Slavery in Peru; report of the secretary of state, with accompanying papers, concerning the alleged existence of slavery in Peru. 1913. (62d cong. 3d sess. House. Doc. no.1366, v.3.)

Negroes

The negro problem

American Academy of Political and Social Science.

326 A51

The negro's progress in 50 years. 1913.

v.49, Sept. 1913, of the "Annals of the American Academy of Political and Social Science."

The same. 1913. (In American Academy of Political and Social Science. Annals, v.49.).....r 306 A51 v.49

Many well-known educators and students of negro problems have supplied the material for these 24 papers, which treat of almost all phases of the subject.

Atlanta University.

r 326 A88

Publications [studies of negro problems]. no.16-18, 20. 1911-16.

Contains the Proceedings of the Conference for the Study of the Negro Problem which is held at Atlanta University each year. The Proceedings are edited by W. E. B. DuBois.

Topics on social betterment, the negro in business, the education of the negro, etc. are discussed.

For no.1-15 see preceding catalogue, v.4, 6.

Cromwell, John Wesley.

326 C89

The negro in American history; men and women eminent in the evolution of the American of African descent. 1914. American Negro Academy.

"Bibliography," p.257-262.

The first part of the book aims to indicate the more important points of contact of the nation and the negro and to trace the transformation of the slave from Africa to freedom and citizenship in the United States. Then follow short biographical sketches of well-known negroes: Sojourner Truth, Phillis Wheatley, Frederick Douglass, Paul Dunbar, Booker Washington, H. O. Tanner, and others.

Du Bois, William Edward Burghardt. 326 D85ne
The negro. 1915. Holt. (Home university library of modern knowledge.)

"Suggestions for further reading," p.244-252.

"Summarizes much of the history of Africa, including in his survey peoples that many authorities would call 'Negroids' rather than 'Negroes,' and then takes up the story of the negro in the western hemisphere." *Nation*, 1915.

Eggleston, Edward, b. 1871. 326 E35

Ultimate solution of the American negro problem. 1913. Badger.

Aims to prove that the solution of the negro problem is the natural elimination of the race, based on unfavorable elements in their origin, history and mental capacity.

Evans, Maurice Smethurst. 326 E94

Black and white in the Southern states; a study of the race problem in the United States from a South African point of view. 1915. Longmans.

"Bibliography," p.284-288.

Since his youth the author has been a citizen of South Africa and a student of the negro; and he frequently draws comparisons between the condition in his country and in ours. He finds that the negro's opportunities for education and for acquiring land are much better than anything with which he is familiar; but he believes that the 14th and 15th amendments were a mistake, and that the negro is best where he is segregated and under the wardship of a white government. While giving us little new on our own country, he offers many side lights on the British in South Africa. *Condensed from Survey*, 1916.

Hammond, Mrs Lily (Hardy). 326 H22

In black and white; an interpretation of Southern life, with an introduction by J. H. Dillard. 1914. Revell.

Author "makes the key note of her book the assertion that the Negro problem is primarily...a poverty problem, and that the colored people have suffered grave injustice from the failure of the South to understand this fact. The book deals therefore with poverty among the Negroes and its amelioration,—with health, housing, delinquency, education, civil rights." *Survey*, 1914.

Haynes, George Edmund. 326 H37

The negro at work in New York city; a study in economic progress. 1912. (Columbia University, New York. Studies in history, economics and public law, v.49.)

"Select bibliography," p.154-156.

The same. 1912. (In Columbia University, New York. Studies in history, economics and public law, v.49.).....r 330 C72 v.49

Mecklin, John Moffatt. 326 M55

Democracy and race friction; a study in social ethics. 1914. Macmillan.

"Study in social ethics which disclaims any pretensions towards a final solution of the race problem but which aims to indicate what the problem really involves." *Book review digest*, 1914.

Miller, Kelly. 326 M690

Out of the house of bondage. 1914. Neale Pub. Co.

Contents: Oath of Afro-American youth.—A moral axiom.—Out of the house of bondage.—The physical destiny of the American negro.—Education for manhood.—Crime among negroes.—The American negro as a political factor.—Fifty years of negro education.—Negroes in professional pursuits.—"The negro in the New World" and "The conflict of color."—The ministry.—The ultimate race problem.—I see and am satisfied.

"Professor Miller does not minimize the race's faults in this survey of its wonderful achievements, nor does he dwell long upon its progress as valued in material units. What he does ask is how far the negroes have acquired the capacity 'to become not

Miller, Kelly—*continued*.

326 M690

merely recipients but partakers of the life and spirit and power of that civilization of which they would constitute a part'...He has vision and faith and...an appreciation of the fact that fifty years of liberty is too short a time in which to pass any final verdict upon a people." *Nation*, 1914.

National League on Urban Conditions among Negroes.

r 326 N15

Bulletin. v.2, no.3, 5; v.3, no.2-3, 6-8; v.4, no.2, 4-5; v.5, no.1-3. 1913-15.

r 326 N21

Negro year book and annual encyclopedia of the negro, 1912, 1914/15-1916/17 [comp. by] M. N. Work. 1912-16. [Sunday School Union Print.]

Contains bibliographies of the negro.

Olivier, Sir Sydney.

326 O23

White capital and coloured labour. 1910. Independent Labour Party. (Socialist library.)

"Mr. Olivier has had an official experience of more than five years in the island [of Jamaica], and he has studied the case of the White, Brown and Black there for the purpose of throwing light on the relations of the white and coloured races in other parts of the world...[His] general theory is that the animosity between white and black is rather in their industrial position than their race distinctions." *Saturday review*, 1907.

Ovington, Mary White.

326 O33

Half a man; the status of the negro in New York, with a foreword by Franz Boas. 1911. Longmans.

"Miss Ovington has given the results of...close, patient, sympathetic, and intelligent observation of the Negroes in New York. Such data as are supplied by the federal census, the Bureau of Immigration, the New York Health Department, and other official agencies are organized and presented. In addition to seeking these sources, Miss Ovington has visited southern communities and lived in Negro neighborhoods in New York. For eight months she was the only white tenant in a Phipps tenement. The honesty with which Miss Ovington has made her observations is at the same time warmly tinged with sympathy and of a very rare quality; and her appreciation, frankness, and discrimination are most unusual." *American journal of sociology*, 1911.

Quillin, Frank Uriah.

326 Q32

The color line in Ohio; a history of race prejudice in a typical northern state. 1913. Wahr. (Michigan University; historical studies.)

"Bibliography," p.167-171.

Thesis for Ph. D., University of Michigan.

A careful investigation which attempts to prove by the present status of the negro in Ohio that race discrimination exists even in northern communities and that the feeling against the negro is nation-wide.

Southern Sociological Congress (2d), Atlanta, Ga. 1913.

r 326 S72

The human way; addresses on race problems; ed. by J. E. McCulloch. 1913.

"Bibliography," p.144-146.

"Speeches on the negro problem...While they do not present much that is new, [they] sum up effectively the conclusions of broad-minded men and women who are working for reform along all lines." *A. L. A. booklist*, 1914.

Weatherford, Willis Duke.

326 W36

Present forces in negro progress. 1912. Y. M. C. A. Press.

"Bibliography," p.187-188.

Impartial treatment, by a Southerner, of the following topics—traits of negro character, negro leadership and race pride, negro population and race movements, the new type of negro farmer, improvement in rural schools and the work of the white churches for the negro.

Woodson, Carter Godwin.

326 W86

Education of the negro prior to 1861; a history of the education of the colored people of the United States from the beginning of slavery to the Civil war. 1915. Putnam.

"Bibliography," p.399-434.

Wright, Richard Robert.

326 W93

The negro in Pennsylvania; a study in economic history. [A. M. E. Book Concern.]

"Bibliography," p.233-250.

The same.....r 326 W93

Study covers slavery in the colony of Pennsylvania, abolition, the negro population since the Civil war, occupations and business enterprises of the negroes, their ownership of property, membership in church and secret societies, education, crime among negroes, poverty and inter-racial contact.

327 Foreign relations. Diplomacy

For Treaties, see 341.2

Haldane, Richard Burdon Haldane, *viscount*.

327 H15

Higher nationality; a study in law and ethics, an address delivered before the American Bar Association at Montreal on 1st Sept. 1913. 1914. Dutton.

"Concerned with discussing the possibility of the development of a higher standard of ideals...in international relations." *Spectator*, 1913.

Hasse, Adelaide Rosalie, *comp*.

qr 016.327 H34

Index to United States documents relating to foreign affairs, 1828-61. pt.1. 1914. (Carnegie Institution of Washington. Publication no.185, pt.1.)

pt.1. A-H.

Covers the gap between the time of the "American state papers" (Foreign affairs), which ceased in 1828, and the index to the annual "Diplomatic correspondence," which begins in 1861.

Hill, David Jayne.

327 H55

History of diplomacy in the international development of Europe, with maps and tables. v.3. 1914. Longmans.

v.3. The diplomacy of the age of absolutism.

For v.1-2 see preceding catalogue, v.6.

Lane, Ralph, (*pseud.* Norman Angell).

327 L23d

Dangers of half-preparedness; a plea for a declaration of American policy. 1916. Putnam.

Author "contends that to possess armament is to be but half forearmed...A country may feel securely prepared only if it publishes in advance the issues for which it is willing to fight, and in general enunciates its stand on international questions." *Nation*, 1916.

Lane, Ralph, (*pseud.* Norman Angell).

327 L23a

The great illusion; a study of the relation of military power to national advantage. 1913. Putnam.

Being an enlarged edition of his "Europe's optical illusion."

"That the commercial and industrial well-being of any nation depends on its comparative armament, and that a state ever reaps a real benefit from a victorious war, is the 'illusion' the author sets out to dispel. He holds no brief for the peace movement, but urges a campaign of education for the realization of economic interdependence, looking toward 'a more definite form of international organization in which international differences will play no part.' While not all economists will agree to its soundness, it is a brilliant, thought-provoking work." *A. L. A. booklist*, 1911.

Lippmann, Walter.

327 L73

The stakes of diplomacy. 1915. Holt.

The "stakes of diplomacy" are the "weak" or "backward" countries that are rich in resources and poor in political experience and the power of defense. Trouble begins when the exploitation of these "weak" countries is attempted competitively by the "strong" nations. Diplomacy has appealed to arms because no satisfactory international solution has been found for the Balkan, Turkish, African, and Chinese problems. This is Mr. Lippmann's diagnosis of the war. His remedy is the internationalization of these "areas of friction" by the establishment of a rudimentary "world government." *Condensed from Nation, 1915.*

qr 327 V31

La Vie internationale; revue mensuelle des idées, des faits et des organismes internationaux, 1912. v.I. 1912.

Europe

Belgium—Ministère des affaires étrangères.

qr 327.4 B39

Reports of the Belgian representatives in Berlin, London and Paris to the minister of foreign affairs in Brussels, 1905-14; European politics during the decade before the war as described by Belgian diplomatists; documents issued by the Imperial German foreign office. 1915.

French and English text.

England

Cramb, John Adam.

327.42 C86

Germany and England, with a preface by A. C. Bradley. 1914. Murray.

The same.....r 327.42 C86

"Series of lectures...the result of deep study and clear thinking allied with insistent and sententious warnings. The author strongly emphasises the almost absolute ignorance among Englishmen of German history and literature and of the deeper forces which underlie Teutonic policy and aspirations. The problem of the relations between the two empires is presented in quite a new aspect...The writer also criticises the ideal of pacifism...he contemptuously dismisses the idea of 'friendly rivalry' and shows conclusively that war is the only solution." *Outlook (London), 1914.*

Contains one lecture on the influence of the doctrines of Treitschke on the modern German spirit.

Johnston, Sir Harry Hamilton.

327.42 J36

Common sense in foreign policy. 1913. Dutton.

Study of the problems which affect British relations with France, Germany, Austria-Hungary, Russia, Portugal, America and the East.

Lea, Homer.

327.42 L44

Day of the Saxon. 1912. Harper.

Contents: The Saxon and his empire.—The British empire and war.—The Saxon and America.—The Saxon and India.—The Saxon and the Pacific.—The Saxon and eastern Asia.—The Saxon and the Russian.—The Saxon and Europe.—The Saxon and the Germans.—The British empire and the world.—Limitations of naval warfare.—Saxon struggle for survival; Russia.—Saxon struggle for survival; Germany.—Preparation and conflict.—Unity of forces.

Follows his "Valor of ignorance," forming the second volume of a trilogy in which the author proposes to deal with "new phases of military science as they affect international existence." Warns England of her decline in prestige and recommends compulsory military service.

Le Breton, John.

327.42 L47

Arm and prepare. Murray & Evenden.

Small book in which the author, who sees pan-Germanism impending, advocates compulsory military service on the part of England.

Murray, George Gilbert Aimé.

327.42 M97

Foreign policy of Sir Edward Grey, 1906-1915. 1915. Clarendon Press.

Contents: THE 12 DAYS: Diary of the 12 days before the war; Criticisms on the 12 days, our relation to France.—THE EIGHT YEARS: The general principles of foreign policy; The general principles of British foreign policy since 1906; The entente with France, the Morocco treaty of 1904; The sequel of the Morocco treaty; The crisis of 1911; The entente with Russia, the treaty of 1907; Persia, the working of the treaty of 1907; Persia continued, Mr Morgan Shuster as treasurer-general; The peril in the background, our relations with Germany; Sir Edward Grey as a statesman.

Neilson, Francis.

327.42 N21

How diplomats make war. 1916. Huebsch.

"Not primarily an attempt to judge between nations... It is rather an attack upon the secret diplomacy, which, whether we hold it wise or stupid, brought England into war automatically and without the people having an opportunity to decide... An illuminating study of the twisting of wills and obscuring of purposes amid the prejudices and immediate judgments of a long and secret diplomatic duel." *New republic*, 1916.

Oliver, Frederick Scott.

327.42 O23

Ordeal by battle. 1915. Macmillan.

Contents: The causes of war.—The spirit of German policy.—The spirit of British policy.—Democracy and national service.

The thesis is that to achieve her victory Great Britain has need of compulsory military service, that without it she cannot render to herself or to her allies the service it is in her power to confer, nor can she maintain any future peace. He finds that the failure of British statesmen to realize this need is due to the evils of the party system, to the lack of leadership and to the unwillingness of politicians to face squarely an unpopular issue. *Condensed from New republic*, 1915.

Sarolea, Charles.

327.42 S24

The Anglo-German problem. [1912.] Nelson.

Contents: Introduction.—Why does Europe distrust Germany?—Some paradoxes and contradictions of modern Germany.—Prussia and Germany.—Reaction in Germany.—Militarism in Germany.—A Prussian general on the coming war.—Nationalism in Germany and the perversion of patriotism.—How Prussia treats her own subjects.—The first German grievance.—The Baghdad Railway and German expansion in the near East.—The second German grievance.—Is German socialism making for peace?—The German kaiser.—Conclusion.

"Sources consulted," p.369-384.

"Dr. Sarolea is well equipped both by birth and cosmopolitan training to analyze the question of the aggression of Germany and her lust for world power... That he is a Belgian may add weight to his prophecy [of war]... In the chapter on 'A Prussian General on the Coming War'... [he] examines the theories of von Bernhardt." *Saturday review*, 1914.

Wilkinson, Henry Spenser.

327.42 W72

Britain at bay. 1909. Putnam.

Contents: The nation and the parties.—Defeat.—Force and right.—Arbitration and disarmament.—The nationalisation of war.—The balance of power.—The rise of Germany.—Nationhood neglected.—New conditions.—Dynamics, the question of might.—Policy, the question of right.—The nation.—The effect of the nationalisation of war upon leadership.—The needs of the navy.—England's military problem.—Two systems contrasted.—A national army.—The cost.—One army not two.—The transition.—The principles on which armies are raised.—The chain of duty.

Mr Wilkinson writes of Anglo-German rivalry as it existed in 1909. He makes a strong plea for compulsory military service in England, pointing out that only by thus strengthening the army can the nation escape defeat in the inevitable conflict with Germany which he sees approaching.

Germany

Bernhardi, Friedrich von. r 327.43 B45b

Britain as Germany's vassal; tr. by J. Ellis Barker. 1914. Dawson.

Contains also a few extracts from "Kriegsbrauch" (the customs of war); pub. by the German general staff, Berlin, 1902, and from Regulations adopted by the Hague conference 1907 and subscribed to by Germany.

Bernhardi, Friedrich von. r 327.43 B45

Germany and the next war; tr. by A. H. Powles. 1914. Arnold.

"Candid expression of the German purpose to predominate... General Bernhardi does not merely produce a book in praise of war; he deliberately advocates not only preparation for war, but also war itself. He writes from the standpoint of one who thinks that aspirations for peace threaten to poison the soil upon which the German people live." *Review of reviews*, 1914.

Bourdon, Georges. 327.43 B65

The German enigma; being an inquiry among Germans as to what they think, what they want, what they can do; tr. by Beatrice Marshall, with introduction by Charles Sarolea. 1914. Crès.

The same.....r 327.43 B65

The result of a series of interviews with the leaders of thought and action in Germany. Mr Bourdon's object was to make an honest endeavor to understand the German point of view with regard to Franco-Germanic relations and to devise some basis upon which a friendship between the nations might be established. *Condensed from Outlook (London)*, 1914.

Fried, Alfred Hermann. 327.43 F94

The German emperor and the peace of the world (Nobel peace prize), with a preface by Norman Angell. [1912.] Hodder.

"Study of the Kaiser and the development of his ideas of a European *rapprochement*, by a lifelong Pacifist. The author seeks to show that the 'War Lord' is becoming a 'Peacemaker.'" *Athenæum*, 1912.

Frobenius, Herman. 327.43 F95d

Des Deutschen Reiches schicksalstunde.

Frobenius, Herman. 327.43 F95

Germany's hour of destiny, with preface by W. R. Shepherd. 1914. International Monthly.

Contents: The inevitable conflict between Great Britain and Germany.—Russia's preparation for war with Germany and Austria.—A French war of revenge forecasted.—The hour of destiny.

The same; with preface by W. R. Shepherd. 1914. International Monthly.r 327.43 F95

Also published under the title "The German empire's hour of destiny."

Published just before the outbreak of the European war. In England's fear of commercial and naval rivalry, in Russia's schemes of expansion, and in the military organization of France, the author foresees the approaching conflict with Germany.

Paszkowski, Wilhelm. qr 327.43 P28

German international progress in 1913. 1914. (Carnegie Endowment for International Peace. Publication no.2.)

As evidence of the growth of international good feeling, the author reviews in this pamphlet the cultural work of 1913 undertaken by Germany in friendly coöperation with America, England and France.

Prothero, George Walter.

327.43 P97

German opinion and German policy before the war. 1916. Royal Historical Soc.

Address given before the Royal Historical Society, Jan. 21, 1915.

Concerned (1) with the ideas and principles, the ambitions and motives which have produced in Germany a state of mind favorable to war; (2) with the historical events and the economic conditions which have strengthened this tendency; and (3) with the course of international politics which rendered an armed conflict difficult to avoid. *Condensed from introductory note.*

Rohrbach, Paul.

r 327.43 R62

Germany's isolation; an exposition of the economic causes of the war; tr. from the German by P. H. Phillipson. 1915. McClurg.

Translation of "Der krieg und die deutsche politik" ("The war and the German foreign policy").

Author believes that England's commercial policy was the real cause of the war.

Treitschke, Heinrich Gotthard von.

327.43 T71

Treitschke; his doctrine of German destiny and of international relations, together with a study of his life and work by Adolf Hausrath; for the first time tr. into English. 1914. Putnam.

Contents: The life of Treitschke, by Adolf Hausrath.—The army.—International law.—First attempts at German colonization.—Two emperors [William I and Frederick III of Germany].—Germany and neutral states.—Austria and the German empire.—The alliance between Russia and Prussia.—Freedom.

Treitschke, who is considered by most critics to be the "master of Bernhardi" and to express the very quintessence of the Prussian theory of the right of might, here elaborates his doctrine of German militarism and German destiny. *Condensed from New York times, 1914.*

France. Italy. Belgium

Cyon, Élie de.

r 327.44 C98

La guerre ou la paix? 1891.

Cyon, Élie de.

327.47 C98

Histoire de l'entente franco-russe, 1886-1894; documents et souvenirs. 1895.

Tardieu, André Pierre Gabriel Amédée.

327.44 T19

France and the alliances; the struggle for the balance of power. 1908. Macmillan.

"Study of French foreign policy [which] might almost be recommended as a convenient summary of the diplomatic history of Europe since the Franco-German War... Significant as showing how thoroughly German ambitions have alarmed Europe." *Outlook, 1909.*

Dillon, Emile Joseph.

327.45 D58

From the Triple to the Quadruple alliance; why Italy went to war. 1915. Hodder.

Published for the "Daily telegraph," London.

Begins with a summary of events and intrigues which forced Italy into the Triple alliance. Gives an excellent account of Bismarck's part in it. Perhaps the most valuable chapters are those which explain the hold that Germany secured upon the imagination, and consequently upon the economic and political life of the Italian people. Contains full explanation of the negotiations between Italy and Austria. *Condensed from Outlook (London), 1916.*

Fuehr, Alexander.

r 327.493 F97

The neutrality of Belgium; a study of the Belgian case under its aspects in political history and international law. 1915. Funk.

China. Japan

r 327.51 C44

Chino-Japanese negotiations; Chinese official statement, with documents and treaties with annexures. 1915.

Hayashi, Tadasu, *viscount*.

327.52 H36

Secret memoirs of Count Tadasu Hayashi, G. C. V. O.; ed. by A. M. Pooley. 1915. Putnam.

Appendices: Memorial of Chang-pei-lun and the Board of censors, 1882.—Text of Anglo-Japanese alliance, 1902.—The Franco-Japanese agreement, 1907.—The Russo-Japanese convention, 1907.—The American-Japanese agreement, 1908.

"It fell to Count Hayashi while Japanese Minister, and subsequently Ambassador, to the court of St. James's, to conceive and realize the idea of an Anglo-Japanese Alliance...In his memoirs the Count permits us to follow the negotiations step by step from the day on which he made a by-the-way suggestion to Lord Lansdowne that such an alliance might be useful, to the day when he had the satisfaction of seeing his long labours crowned with success...More valuable far than Count Hayashi's diplomatic revelations are his criticisms of his country's relations with China, and his quite extraordinarily acute appreciation of the civilisation of the Chinese...Mr. Pooley, in his introductory chapter, gives us a brief but not inadequate biography." *Outlook (London)*, 1915.

United States

Bigelow, John, *b.* 1854.

327.73 B47

American policy; the Western hemisphere in its relation to the Eastern. 1914. Scribner.

"Bibliography," p.170-175.

"Deals with American policies in their broadest aspects...Seeks to explain the Monroe Doctrine, distinguishing between the extension and perversion of it; to show its bearing and that of Washington's Farewell Address upon present national affairs; and to expound the theory of Pan Americanism." *Preface*.

Chadwick, French Ensor.

327.73 C34

Relations of the United States and Spain; diplomacy. 1909. Scribner.

"Very adequate and impartial account of the diplomatic relations between the two countries from 1763 to 1898...It goes without saying that these diplomatic relations throw an immense flood of light upon the causes of the war with Spain." *American historical review*, 1910.

Dunning, William Archibald.

327.73 D92

The British empire and the United States; a review of their relations during the century of peace following the Treaty of Ghent, with an introduction by Viscount Bryce and a preface by N. M. Butler. 1914. Scribner.

The same.....r 327.73 D92

He has made no attempt to gloss over the differences that have arisen between the two peoples or the errors of judgment committed in attempting to solve them. With clearness, cogency and impartiality he has fulfilled his task. The result is a survey of the past century full of encouragement for lovers of peace. *Condensed from preface*.

Fish, Carl Russell.

327.73 F52

American diplomacy. 1915. Holt. (American historical series.)

Author is (1915) professor of history in the University of Wisconsin.

The book "covers the subject of a century and a quarter of American foreign affairs with notable fairness and intelligence. Those who would study particular matters more thoroughly will find, in this volume, ample citation of authorities. The book is readable and expository, so that it gives the reader definite points of view as well as generally accurate historical statements." *Review of reviews*, 1915.

Johnson, Willis Fletcher.

327.73 J36

America's foreign relations. 2v. 1916. Century.

"The book is popular, but it is thorough. In it, sound, uncontroversial discussion is joined with full information...In treating of the 'prenatal influences' which affected the nation, Mr. Johnson...[supplies] in fuller measure and in more intelligible form than do most historians that European setting which is indispensable to an understanding of the period. Equally instructive is his account of the international relationships of the United States during the revolutionary era...Even more satisfactory is [his] treatment of the modern era, which, beginning with the Civil War, includes many problems still thought of as political issues. In dealing with the embroilment at Samoa, the annexation of Hawaii, our relations with Latin America, the war with Spain, the 'open door' in China, the Isthmian Canal, the author speaks as plainly and fully as in any part of his treatise, expressing without hesitation the lessons which facts and logic teach." *North American review*, 1916.

Lane, Ralph, (pseud. Norman Angell).

327.73 L23

America and the new world-state; a plea for American leadership in international organization. 1915. Putnam.

"Published in the hope that it may contribute, in however small measure, to forming on the part of the American people that 'Will' (without which no 'way' can be devised) to take the leadership in the civilization of Christendom." *Preface*.

Lodge, Henry Cabot.

327.73 L76

One hundred years of peace. 1913. Macmillan.

"Dispassionate, scholarly discussion of the relations between England and the United States since the War of 1812. Revised and enlarged from two articles printed in the *Outlook* and later published as a U. S. government document." *A. L. A. book-list*, 1913.

Manning, William Ray.

327.73 M33

Early diplomatic relations between the United States and Mexico. 1916. Johns Hopkins Press. (Albert Shaw lectures on diplomatic history, 1913.)

"Comments on authorities," p.378-392.

Roosevelt, Theodore.

327.73 R68

Fear God and take your own part [and other articles]. 1916. Doran.

Other articles: Warlike power; the prerequisite for the preservation of social values.—Where there is a sword for offence there must be a sword for defence.—America first; a phrase or a fact?—International duty and hyphenated Americanism.—Peace insurance by preparedness against war.—Uncle Sam's only friend is Uncle Sam.—The sound of laughter and of playing children has been stilled in Mexico.—When is an American not an American?—The Japanese in Korea.—The Panama blackmail treaty.—Conclusion.—Appendices: Murder on the high seas; Americanism; Letter in reply to a request to speak at a mass meeting on behalf of the Armenians; Record on preparedness.

r 327.73 S74

Speeches incident to the visit of Philander Chase Knox, secretary of state of the United States, to the countries of the Caribbean, Feb. 23 to April 17, 1912. 1913.

Binder's title reads "Speeches in the countries of the Caribbean."

United States—State department.

qr 327.73 U25

Diplomatic correspondence with belligerent governments relating to neutral rights, commerce [and duties. v.1-3]. 1915-16. (European war no.1-3.)

Usher, Roland Greene.

327.73 U28

Pan-Americanism; a forecast of the inevitable clash between the United States and Europe's victor. 1915. Century.

"Bibliography," p.443-459.

"Usher's contention is that no matter which side is victorious in the present war, we are certain to be subject at once to aggression on the part of the victor...Aggression

Usher, Roland Greene—*continued.*

327-73 U28

will not express itself in terms of conquest on our territory. It will take the form of influence in South America, the only combined market and place for racial expansion left on the globe. Such expansion on the part of the victor will directly challenge the Monroe Doctrine, which means militarism; nothing else can justify it; nothing else can protect it." *Boston evening transcript*, 1915.

Monroe doctrine

Bingham, Hiram, *b.* 1875.

327-73 B48

The Monroe doctrine; an obsolete shibboleth. 1913. Yale University Press.

"Attempts to sketch the growth of the Doctrine, to indicate the obligations and disadvantages it entails and, more particularly, to portray the attitude toward it and toward us of our neighbors to the south. Also to suggest, very briefly, the outlines of a new foreign policy...A readable, clear statement of the author's convictions, the result of four journeys to South America. The appendix gives the text of documents illustrative of the growth of the Monroe doctrine. Enlarged from an article in the *Atlantic Monthly*." *A. L. A. booklist*, 1913.

Hart, Albert Bushnell.

327-73 H31

Monroe doctrine; an interpretation. 1916. Little.

"Bibliography of the Monroe doctrine and of its collateral doctrines," p.405-421.

Pt.1 is devoted to the underlying conditions of the new Latin-American states which became parties to American diplomacy; and to the text and the motives for the first official statements. Pts.2 and 3 are occupied with the growth of American relations and the efforts of statesmen to frame new forms of doctrine to correspond. Pts.4 and 5 discuss the same facts in new combinations, illustrated by the views of modern writers. Pt.6 attempts to point out how far the doctrine in its present meaning is likely to be applied in the future, and what steps are possible for the United States to take in order to maintain it. *Condensed from preface.*

Phelps, Edith M. *comp.*

327-73 P48a

Selected articles on the Monroe doctrine. 1916. Wilson. (Debaters' handbook series.)

"Bibliography," pref. p.17-33.

The same.....r 327-73 P48a

The same. 1915..... 327-73 P48

"Bibliography," pref. p.15-28.

The same.....r 327-73 P48

Sherrill, Charles Hitchcock.

327-73 S55

Modernizing the Monroe doctrine, with an introduction by N. M.

Butler. 1916. Houghton.

Author, a former United States minister to Argentina, is (1916) chairman of the committee on foreign relations of the Chambers of commerce of the United States.

Discusses the "economic situation in the South American republics, our opportunities for trade expansion there, and what policies will foster friendship vital to the development of our commerce. Also [considers] how chambers of commerce and similar bodies can increase our sales abroad, and thus serve the country internationally as they now serve their own communities." *Publishers' weekly*, 1916.

Other countries

Thomson, Norman.

qr 327.8 T38

Colombia and Peru in the Putumayo territory; a reply to the defence of the Peruvian government, issued under authority of the Colombian government; translations by F. L. R. Brown. 1914.

Cleveland, Grover. 327.87 C58
Venezuelan boundary controversy. 1913. Princeton University Press. (Stafford Little lectures.)

The same. 1904. Century. (In his Presidential problems, p.173-281.) 304 C58

Address delivered at Princeton University, 1901, discussing an important issue of Cleveland's administration.

New York and Bermudez Company. qr 327.87 N26

Seizure of the property of the New York & Bermudez Company by the Venezuelan government; a statement by the company. [1906?]

Statement of the attempts by the Venezuelan government to seize a valuable asphalt deposit owned by the company.

Balkanicus, pseud. 327.9497 B19

Aspirations of Bulgaria; tr. from the Serbian. [1915.] Simpkin.

A close narrative of the events of 1913 set forth as a witness against the double dealing of the Bulgarian government and army. The record, which includes telegrams, orders, letters and other official documents, is presented without comment and entirely without abuse. *Condensed from Saturday review, 1916.*

Legislation

Brown, William Jethro. 328.2 B79

Underlying principles of modern legislation. 1915. Dutton.

"Clear and illuminating presentation of the ideals and activities of the contemporary state...Opens with an analysis of the anarchist philosophy, and then proceeds to the discussion of the meaning of liberty, the failure of *laissez-faire* to realize freedom, the social will, state paternalism...social legislation, and the sphere of individual rights...The illustrations of the argument are drawn [for the most part] from British or Australian experience." *Independent, 1915.*

Parliamentary law

Cushing, Luther Stearns. 328.1 C93n

The new Cushing's manual of parliamentary law and practice, according to present American usage, together with a working code for societies; revised and enlarged by C. K. Gaines. 1912. Thompson.

The same. r 328.1 C93n

Robert, Henry Martyn. r 328.1 R53

Robert's rules of order revised for deliberative assemblies. 1915. Scott.

Legislative bodies and annals

Great Britain

Dilnot, Frank. 328.42 D58

The old order changeth; the passing of power from the House of lords. 1911. Smith, Elder.

Describes in detail the succession of events which, beginning with the introduction of the budget in 1909, ended with the passing of the Parliament bill in 1911.

[Grant, James, 1802-79.] 328.42 G78r

Random recollections of the House of commons from the year 1830 to the close of 1835, including personal sketches of the leading members of all parties, by One of no party. 1836. Smith.

Ilbert, Sir Courtenay Peregrine. 328.42 I22
Parliament; its history, constitution and practice. 1911. Holt.
(Home university library of modern knowledge.)

"Bibliography," p.249-254.

Treats the origin, development, constitution, finance and administration, procedure, records, etc. of the English parliament.

Newcastle-upon-Tyne, England—Public libraries. qr 328.42 N26

Index catalogue of the parliamentary papers in the public reference room, by Joseph Walton. 1915. Swan.

r 328.42 P24

Parliamentary or constitutional history of England from the earliest times to the restoration of King Charles II; collected by several hands. 24v. 1761-63. Tonson & Sandby.

v.10-12, title reads "Parliamentary or constitutional history of England; being a faithful account of all the most remarkable transactions in Parliament."

Ritchie, James Ewing. 328.42 R49

British senators; or, Political sketches, past and present. 1869. Tinsley.

United States

Alexander, De Alva Stanwood. 328.73 A37

History and procedure of the House of representatives. 1916. Houghton.

Haines, Lynn. 328.73 H15

Your Congress; an interpretation of the political and parliamentary influences that dominate law making in America. 1915. National Voters' League.

United States—Congress. qr 328.73 C74b2

Biographical congressional directory, 1774-1911; Continental congress, Sept. 5, 1774 to 62d congress, March 3, 1911. 1913. (61st cong. 2d sess. Senate. Doc. no.654, v.56.)

United States—Continental congress. qr 328.73 U25aj2

Journals, 1774-1789; ed. from the original records in the Library of Congress by W. C. Ford. v.19-23. 1912-14.

v.19-21. 1781.

v.22-23. 1782.

"Bibliographical notes," in the last volume for each year.

A new reprint of the Journals of the Continental Congress taken from the original manuscript. Entries are supplemented by information gathered from the indorsements made upon papers and reports laid before Congress, which often note action not entered upon the Journals, and from such other sources as will aid in reconstituting the proceedings of this Revolutionary body.

For v.1-18 see preceding catalogue, v.4, 6.

United States—Documents office. r 328.73 U2535ch2

Checklist of public documents, 1789-1909: Congressional, to close of 60th congress [and] departmental to end of calendar year 1909. v.1. 1911.

United States—Documents office. qr 016.328 U25

Classified list of United States public documents for selection by depository libraries. 1913.

United States—Documents office. r 328.73 U2535n

New classes assigned in the Public Documents Library, Jan. 1, 1910–Oct. 31, 1913, in continuation of the classification used in the Checklist of United States public documents, 1789–1909. 1914. (Bulletin no.15.)

United States—House. qr 328.73 U2532

Journal, 62d cong. 2d sess.—date. 1912—date.

Binder's title reads "House journal."

For earlier volumes see preceding catalogue, v.1, 6.

United States—Privileges and elections committee. r 328.73 U2537

Compilation of Senate election cases from 1789 to 1913. 1913. (62d cong. 3d sess. Senate. Doc. no.1036, v.9.)

First compilation, covering cases from 1789 to 1885, was made by G. S. Taft, work was continued by G. P. Furber to March 1893, by G. M. Buck to March 1903 and by C. A. Webb and H. R. Pierce to March 1913.

United States—Senate. qr 328.73 U253

Journal, 62d cong. 2d sess.—date. 1911—date.

Binder's title reads "Senate journal."

For earlier volumes see preceding catalogue, v.1, 6.

United States—Senate. r 328.73 U253m

Senate manual, containing the standing rules and orders of the Senate, the constitution of the United States, Declaration of independence, Articles of confederation, the Ordinance of 1787, Jefferson's Manual, etc. 1915. (63d cong. 3d sess. Senate. Doc. no.938, v.5.)

Pennsylvania

r 328.74 D43

Department reports of Pennsylvania; opinions, rulings, decisions [weekly], Jan. 14, 1915—date. v.1—date. 1915—date.

Pennsylvania—House of representatives. r 328.74 P399h

Journal for the session, 1911–15. 1912–16.

For volumes for 1803/04–1909 see preceding volumes of this catalogue.

Pennsylvania—Senate. r 328.74 P399s

Journal [of the sessions held] 1842, 1850, 1911–15. 1912–16.

Journal for sessions of 1842 is in 3 volumes, of which the Library has only v.1; 1850, in 2 volumes, of which the Library has only v.2.

Earlier journals have volume numbers.

Journal for 1850 is in German and title reads "Tagebuch des Senats des staats Pennsylvanien."

For other volumes see preceding catalogue, v.1, 6.

Pittsburgh—Council. r 328.74 P67a

Councilmanic hand book of Pittsburgh for 1912/13, 1915. 1912–15.

Continues "Manual" of Pittsburgh councils, the last issue of which was for 1909/11.

Place, A. R. comp. r 328.74 P678

Year book of Montgomery county [Pa.] 1912. 1912.

Other states

- Maryland**—General assembly. qr 328.75 M43
 Archives of Maryland. v.11-13, 15-17, 32-36. 1892-1916.
 v.13, 33-36. Proceedings of the General assembly, 1684-1729.
 v.15, 17, 32. Proceedings of the Council, 1671-1770.
 v.11-12, 16. Journal and correspondence of the Council, 1775-78.
 Published by authority of the state under the direction of the Maryland Historical Society, W. H. Browne and C. C. Hall, editors.
 For other volumes see preceding catalogue, v.4, 6.
- Virginia**—House of burgesses. qr 328.75 V34
 Journals, 1619-93, 1695-1706, 1710-12; ed. by H. R. McIlwaine.
 1912-15.
 For other volumes see preceding catalogue, v.4, 6.
- Indiana**—General assembly. r 328.77 I24
 Legislative manual for 1913. 1913.
 For earlier volumes see preceding catalogue, v.4, 6.
- Ohio**—General assembly. r 328.771 O18
 Executive documents; annual reports for 1909-14, made to the
 78th-81st General assembly. 1910-15.
 For earlier reports see preceding catalogue, v.6.
- Ohio**—House of representatives. r 328.771 O1832
 Journal, 80th-81st General assembly, 1913-15. 1913-15.
 Journal for the 2d session of 1914 is bound with Ohio—Senate. Journal, 1914,
 pt.2 (r 328.771 O1833).
 For volumes for 1906-10 see preceding catalogue, v.6.
- Ohio**—Senate. r 328.771 O1833
 Journal, 80th-81st General assembly, 1913-15. 1913-15.
 For volumes for 1906-10 see preceding catalogue, v.6.
- Ohio**—State department. r 328.771 O1834
 Ohio official roster; federal, state and county officers, 1915. 1915.
 For volumes for 1906, 1908-10 see preceding catalogue, v.6.

329 Politics

- Belmont, Perry.** r 329 B41
 Abolition of the secrecy of party funds; the origin of the movement,
 its purpose and effect. 1912. (United States. 62d cong. 2d sess. Sen-
 ate. Doc. no.495.)
 Appendix contains his "Publicity of election expenditures" and the "Report of Na-
 tional Publicity Bill Organization."
- Bishop, Joseph Bucklin.** 329 B49
 Presidential nominations and elections; a history of American con-
 ventions, national campaigns, inaugurations and campaign caricature.
 1916. Scribner.
- Bryan, William Jennings.** 329 B84t
 A tale of two conventions; an account of the Republican and Demo-
 cratic national conventions of June 1912, with an outline of the Pro-
 gressive National Convention of August in the same year, with
 selections of notable speeches, including those of Theodore Roosevelt,
 Bryan, Elihu Root and A. B. Parker; ed. by V. V. McNitt, illustrated
 from contemporary cartoons. 1912. Funk.

Fess, Simeon Davidson.

329 F42

History of political theory and party organization in the United States. 1910. Ginn.

"Dr. Fess bases his work on the thesis that political parties and political theories in this country rest on the very elements of human nature... Though names have changed, platforms have been modified, utterances have been revised and attitudes have been reversed, we have had but two parties throughout our life of one hundred and twenty years... For developing his theme, the author skilfully pilots us through the mazes of enunciations and deliverances of individuals and groups, from the formation of the Union down." *American historical review*, 1911.

Fite, Emerson David.

329 F55

Presidential campaign of 1860. 1911. Macmillan.

"Though somewhat partisan, and based too largely on contemporaneous newspaper sources, this study of the campaign and of the John Brown raid and the Speakership contest of 1859 is of interest to all students of political history. The author maintains that the South seceded to protect slavery, excluding other factors in the movement. Less attention is paid to Lincoln than in most other histories of the time, and more to the leaders of the campaign in the East and South. Party platforms are appended, together with campaign speeches." *A. L. A. booklist*, 1911.

[**Jordan, William George, b. 1864.**]

qr 329 J42

The five national platforms dissected, classified, indexed; the platforms of the five political parties, Democratic, Progressive, Prohibition, Republican and Socialist for the year nineteen hundred and twelve, rearranged for instant reference. [1912. Jordan Pub. Co.]

Ostrogorski, Moisei Iakovlevich.

329 O29a

Democracy and the party system in the United States; a study in extra-constitutional government. 1910. Macmillan.

"Bibliographical note," p. 457-461.

A new edition of v. 2 of his "Democracy and the organization of political parties" (329 O29 v. 2).

"In bulk it has been reduced about one-half, and its contents have been brought up to date. One new chapter on extra-constitutional government in the legislative assemblies has been added. The general verdict upon the original work, that it is admirable upon the historical, critical, and analytical side, but weak in its suggestions for political reconstruction, may be safely reaffirmed." *Nation*, 1910.

Pennsylvania—Secretary of the commonwealth.

r 329 P39

Tabulated statement of the votes cast for the several candidates for the offices of presidential elector, representative in Congress, senator in the General assembly and representative in the General assembly, in the several counties of the commonwealth at the general election held on Tuesday, Nov. 5, 1912; comp. from the official returns. 1912.

Sloane, William Milligan.

329 S63

Party government in the United States of America. 1914. Harper.

Most of the chapters were originally given as lectures in German in the universities of Berlin and Munich, where the author was Roosevelt professor, 1912-13. He traces with thoroughness and skill the historical evolution of our party system, sets forth its merits and its misuses, and points out the national policies which it has guided. He dwells at length upon its great influence on the departments of government.

Stanwood, Edward.

329 S79h

A history of the presidency. 2v. 1898-1912. Houghton.

v. 1. 1788-1896.

v. 2. 1897-1908.

Based on the "History of presidential elections" (329 S79).

The same. 2v. r 329 S79

The first volume covers the development of the public events of more than a hundred years while the second is devoted to the three presidential campaigns of 1900, 1904

Stanwood, Edward—*continued.*

and 1908, with lengthy chapters on Roosevelt's election for a "second term" and the era of "Progressive" insurgency.

Appendix to v.2 contains "Conventions, candidates and platforms, canvass of 1912."

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Cole, Arthur Charles. 329.4 C68

Whig party in the South. 1914. Amer. Historical Assoc. (Justin Winsor prize in American history, 1912.)

"Bibliography," p.345-366.

Thesis for Ph. D., University of Pennsylvania.

Sketch of the history of the party in its relations to local problems and to the national organization.

Democratic National Committee, 1912. r 329.3 D42d

Democratic text-book, 1912. [1912.]

Democratic National Convention. r 329.3 D422o

Official proceedings of the convention held in Cincinnati, O. June 22-24, 1880, with an appendix containing the organization of the National Democratic Committee, the proceedings of the notification committee in New York and the letters of acceptance of W. S. Hancock and W. H. English. 1882.

New York (city)—Public library. Astor, Lenox qr 016.329 N26
and Tilden foundations.

Political parties in the United States, 1800-1914; a list of references. 1915.

Republican National Convention. r 329.6 R35

Proceedings of the 14th-15th Republican National conventions, 1908-12. 1908-12.

14th and 15th conventions held at Chicago.

For earlier volumes see preceding catalogue, v.1, 6.

Webster, Homer Jephtha. 329.3 W38

History of the Democratic party organization in the northwest, 1824-40. 1915. Heer.

"Bibliography," p.3-5.

"The material for this work has been gathered almost entirely from the files of contemporary newspapers where alone it was to be found." *Book, p.3.*

330 Economics

Bibliography

California University—Economics department. r 016.33 C13

Topics and references for Economics 42-43. 1906-07.

Contents: Contemporary theories of social reform.—History of social-reform movements.

General works

Cannan, Edwin. 330 C17

Wealth; a brief explanation of the causes of economic welfare. 1914. King.

"Text-book on economics...characterized by a freshness of thought which will make it stimulating to teachers, for whom it is primarily intended." *Economic review, 1914.*

Eddy, Arthur Jerome.

330 E26

The new competition; an examination of the conditions underlying the radical change that is taking place in the commercial and industrial world, the change from a competitive to a coöperative basis. 1912. Appleton.

Mr Eddy squarely disputes the fact that competition is the life of trade and holds that the principle of coöperation is becoming more and more the guiding force which is determining business conditions. A real contribution to economical literature. *Condensed from Railway age gazette*, 1912.

r 330 F31

Federal legislation, 1913-14; income tax, war revenue, Federal reserve bank, anti-trust and trade commission laws; thoroughly annotated by E. H. Henderson. v.1. 1915. Federal Legislative Bulletin Service.

George, Henry.

r 330 G31

Complete works. 10v. 1911. Doubleday.

v.1. Progress and poverty.

v.2. Social problems.

v.3. The land question.

v.4. Protection or free trade.

v.5. A perplexed philosopher.

v.6-7. Science of political economy.

v.8. Our land and land policy.

v.9-10. Life of Henry George, by Henry George, jr.

Hanson, William, *writer on economics*.

330 G31zh

Fallacies in [Henry George's] "Progress and poverty," in H. D. Macleod's "Economics" and in "Social problems," with the ethics of protection and free trade and the industrial problem considered a-priori. 1884. Fowler.

Contains also his "The ideal man."

Johnson, Edgar Hutchinson.

qr 330 G31zj

Economics of Henry George's "Progress and poverty." 1910.

Thesis for Ph. D., University of Chicago.

The same. 1910. (In *Journal of political economy*, v.18, p.714-735.) r 330.5 J46 v.18

Brief criticism of the principles underlying George's doctrine of taxation.

Rutherford, Reuben C.

330 G31r

Henry George *versus* Henry George; a review. 1887. Appleton.

Hobson, John Atkinson.

330 H65w

Work and wealth; a human valuation. 1914. Macmillan.

"Mr. Hobson examines subjective ideas without the aid of psychology. He writes to supplement, rather than to criticize. His purpose is 'to present a full and formal exposure of the inhumanity and vital waste of modern industry by the close application of the best-approved formulas of individual and social welfare, and to indicate the most hopeful measures of remedy for a society sufficiently intelligent, courageous, and self-governing to apply them.' This exposition follows the familiar lines of theory, introducing human, as a set-off to economic, costs and utilities." *Athenaeum*, 1914.

Johnson, Alvin Saunders.

330 J35

Introduction to economics. 1909. Heath.

Introductory text-book by the (1912) professor of economics in the University of Texas.

Koester, Frank.

330 K36

Price of inefficiency. 1913. Sturgis.

"It is the purpose of this book to show where the frightful wastes are being incurred, in governmental and industrial, social and educational affairs, to point out remedies for reducing them to a minimum or eliminating them entirely, and to indicate new principles which may often operate not only to reduce and eliminate inefficient methods but to leave the field clear for efficiency." *Preface.*

Leroy-Beaulieu, Pierre Paul.

330 L63

Traité théorique et pratique d'économie politique. 4v. 1910. (Économistes et publicistes contemporains.)

Mallock, William Hurrell.

330 M29

Social reform as related to realities and delusions; an examination of the increase and distribution of wealth from 1801 to 1910. 1914. Murray.

Devoted largely to a statistical analysis of the growth of the wealth of England from 1801. Aims to expose "certain errors which form the primary assumption of 'reformers' of the more extreme type." These are, specifically, that while the rich have grown richer, the poor have grown poorer: that the middle classes are being crushed out of existence; that the lot of the poor would be improved by the confiscation of the wealth of the rich.

Marshall, Leon Carroll, and others, ed.

330 M417m

Materials for the study of elementary economics. 1913. University of Chicago Press.

"Gathers together under the topics generally used in economic study, material from various writers, to be found in books, magazines, reports, and bulletins...Intended to be used in conjunction with a college text but valuable to all those desirous of acquainting themselves with the subject historically or the aspects of present-day economic problems." *A. L. A. booklist, 1914.*

Marshall, Leon Carroll, and others.

330 M417

Outlines of economics developed in a series of problems, by members of the Department of political economy of the University of Chicago. [1914.]

Preface signed by L. C. Marshall, C. W. Wright and J. A. Field.

Not intended to take the place of a text-book, but designed to parallel some text. Made up of a series of questions which may serve to arouse interest and lead to discussion.

North, Cecil Clare.

330 R39zn

Sociological implications of Ricardo's economics. [1915.] University of Chicago Press.

Thesis for Ph. D., University of Chicago.

Pierson, Nikolaas Gerard.

330 P57

Principles of economics; tr. from the Dutch by A. A. Wotzel. v.2. 1912.

"One of the best text-books on economics...Its author was formerly Premier in Holland, and the theories of economics...are kept in constant check by his reference on all points to his actual experience as a statesman and man of affairs." *Saturday review, 1903 (Review of v.1).*

For v.1 see preceding catalogue, v.4.

Pigou, Arthur Cecil.

330 P579

Wealth and welfare. 1912. Macmillan.

"A heavy, scholarly English work dealing with the distribution of wealth, state control and monopoly from both a theoretical and practical viewpoint. Though it contains a great deal of the economic theory which characterized the older school, in many respects it shows marked originality." *A. L. A. booklist, 1913.*

- Post, Louis Freeland.** 330 P84
 Social service. 1910. Wessels.
 An analysis, with plenty of concrete illustration, of the intricate coöperation that exists between producers and consumers of economic utilities.
- Rawie, Henry.** 330 R23
 Our city civilization. 1913. Williams. (Science of value.)
 Economic study based upon the author's theory of value.
- Roscher, Wilhelm.** 330 R71s
 System der volkswirtschaft; ein hand- und lesebuch für geschäfts-
 männer und studierende. v.3, pt.1, v.4. 1901-13.
 v.3, pt.1. Nationalökonomik des gewerfleisses und handels.
 v.4, pt.1-2. System der finanzwissenschaft.
 For v.1-2 see preceding catalogue, v.4.
- Seager, Henry Rogers.** 330 S43a
 Principles of economics; being a revision of [his] Introduction to
 economics. 1913. Holt.
 "References for collateral reading" at the end of each chapter.
The same. 1913.....r 330 S43
 Text-book of college and university grade; thoroughly modern in doctrine, wide in
 sympathy, clear and stimulating in style and manner of presentation.
- Seligman, Edwin Robert Anderson.** 330 S46a
 Principles of economics, with special reference to American condi-
 tions. 1912. Longmans. (American citizen series.)
 "Suggestions for students and general references," p.17-52; "References" at the
 beginning of each chapter.
The same. 1912.....r 330 S46
 References at the beginning of each chapter.
- Smith, Adam.** 330 S64a2
 Inquiry into the nature and causes of the wealth of nations, re-
 printed with an introduction by E. B. Bax. 2v. 1912. Bell.
 "A connected and comprehensive grasp of principles was the great achievement of
 Adam Smith; for though not without faults, 'The Wealth of Nations' has been the basis
 of all subsequent discussion and advance in political economy." *Bowker & Iles'*
"Reader's guide."
- Taussig, Frank William.** 330 T24
 Principles of economics. 2v. 1911. Macmillan.
 "In these eminently readable volumes, Professor Taussig has covered the leading
 questions of economic theory and has discussed almost every important phase of the
 practical economic issues of the present day. Though assuming no previous study of
 the subject, the book is addressed to readers of mature intelligence...The ease born
 of thorough familiarity with every part of the subject, and of long practice in successful
 teaching of mature students, is apparent in the style throughout." *Nation*, 1912.
- Wayland, Francis.** r 330 W35
 Elements of political economy. 1860. Gould.

Theories

- Anderson, Benjamin McAlester.** 330.1 A54
 Social value; a study in economic theory, critical and constructive.
 1911. Houghton. (Hart, Schaffner & Marx prize essays in economics.)
 "An indispensable book for both sociologists and economists who wish an outlook
 upon each other's respective fields, for it bases economic theory squarely upon...
 sociology...The book is therefore of great use to the sociological theorist as well as
 to the economic theorist...The argument of the book is also based upon the soundest and
 most recent developments in psychological theory." *American journal of sociology*, 1913.

Block, Maurice.

330.1 B55

Les progrès de la science économique depuis Adam Smith, revision des doctrines économiques. 2v. 1897.

King, Willford Isbell.

330.1 K26

Wealth and income of the people of the United States. 1915. Macmillan. (Library of economics, politics and sociology.)

As a compact digest and useful survey of statistical facts the book deserves commendation. The aim is to study the trend of the figures as shown by comparisons going back as far as the census of 1850.

"So far as the policy of the United States is concerned, the conclusion drawn by Mr. King is that the interests of the masses of this nation demand a cessation of the inflow of immigrants whose standard of living is lower than the American standard. He presents the case for this with great force. But the argument, so far as it is valid, derives its weight solely from the general or theoretical considerations." *Nation*, 1916.

Loria, Achille.

330.1 L87

Economic synthesis; a study of the laws of income; tr. from the Italian by M. E. Paul. 1914. Allen.

"Contains many original ideas, expressed with an exhilarating disregard of orthodox opinion... The main thesis of the book is that economic science is now sufficiently advanced to permit the formulation of a general law of social stability... The chapter on 'The Distribution of Income' is undoubtedly the most stimulating in the book." *Athenæum*, 1914.

Mallock, William Hurrell.

330.1 M29

The nation as a business firm; an attempt to cut a path through jungle. 1910. Black.

"By somewhat intricate statistical reasoning the author undertakes to make convincing proof of the fallacy of the claims of socialists and single taxers. He shows by elaborate argument that the poor as a class have prospered as much since 1800 as the rich; that the vast bulk of the incomes of the nation are earned as distinct from unearned; that, in brief, 'the poor do not become ever poorer and poorer,' but that on the contrary the poor man's income has doubled in a hundred years." *Survey*, 1911.

Marx, Karl.

330.1 M43

The poverty of philosophy; being a translation of the *Misère de la philosophie* (a reply to "La philosophie de la misère" of M. Proudhon), with a preface by Friedrich Engels; tr. by H. Quelch. 1910. Kerr.

First English translation of a work originally published in 1847, devoted to a criticism of Proudhon's treatise on political economy.

Murdoch, John Gormley.

330.1 M97

Economics as the basis of living ethics; a study in scientific social philosophy. 1913. Allen Book and Printing Co.

"Originally prepared... as lectures to 'The People's Forums' of Troy, N. Y., and Schenectady, N. Y. They form a continuous discussion of the dependence of ethics upon economics from the viewpoint of Marx's conception of history. First comes the Marxian idea; next, its application to theories of property and to ethics; the ethics of profit and interest lead to a criticism of modern economics theory." *Foreword*.

Palgrave, Robert Harry Inglis, ed.

r 330.3 P18a

Dictionary of political economy; appendix. 1909. Macmillan.

For volumes which this supplements see preceding catalogue, v.1.

Proudhon, Pierre Joseph.

330.1 P97

Système des contradictions économiques; ou, Philosophie de la misère. 2v. 1850.

Rawie, Henry. 330.1 R23

Distribution. 1907. Privately printed. (Science of value, no.6.)

The author holds that "instead of considering value to be a quality of property upon which labor depends for existence we should consider value as a quality of labor upon which property depends for its distribution."

Rawie, Henry. r 330.1 R23

Science of value; a cash market. 1915. Privately printed.

Contents: Light.—The quantity of money.—Labor.—Prices above cost.—Past labor money.—The elasticity of the currency.—The value of land.—Competition.—Income.—Capital.—Banking.—Wages.

Taussig, Frank William. 330.1 T24

Inventors and money-makers; lectures on some relations between economics and psychology delivered at Brown University. 1915. Macmillan.

Contents: The instinct of contrivance.—The instinct of contrivance, further considered.—The psychology of money-making.—Altruism, the instinct of devotion.

Taylor, Fred Manville. 330.1 T25

Principles of economics. 1913. University of Michigan.

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Agriculture and economics

Dahlinger, Charles William. 330.1963 D15

The new agrarianism; a survey of the prevalent spirit of social unrest, and a consideration of the consequent campaign for the adjustment of agriculture with industry and commerce. 1913. Putnam.

A survey of the social unrest and a review of agricultural methods and reforms in European countries leads up to a consideration of the adjustment of agriculture to economic conditions in America. Emphasizes especially the advantages of organized rural finance.

Essays

American Academy of Political and Social Science. 330.4 A51am

The American industrial opportunity. 1915.

Contents: Resources.—Employment and unemployment.—Necessary readjustments.—Foreign trade.

v.59, May 1915, of the "Annals of the American Academy of Political and Social Science."

The same. (In American Academy of Political and Social Science. Annals, v.59.)r 306 A51 v.59

Babson, Roger Ward. 330.4 B11

Future of nations; prosperity, how it must come; economic facts for business men; based on certain lectures delivered by the author. 1914. Babson Statistical Organization.

Contents: Taxation.—Religion.—Education.—International affairs.

Bartlett, Dana Webster. 330.4 B27

The better country. 1911. Clark.

Contents: Social service.—Raising the standard.—Nations at work in social uplift.—Wealth for all the people.—Conservation of a nation's resources.—Agriculture's opportunity.—Building homes.—Enrichment of life.—In the life saving business.—Educating the people.—Immigrants.—Serving others.—The army of peace.—More democracy.

- Bastiat, Frédéric.** 330.4 B29s
Sophismes économiques. 2v. 1863. (Œuvres complètes, v.4-5.)
 v.1. *Sophismes économiques.*—Petits pamphlets.
 v.2. *Petits pamphlets* (continued).
- Hall, Bolton.** 330.4 H17
 Money making in free America; short chapters on prosperity, introduction by T. L. Johnson. 1909. Arcadia Press.
 "Annual production of wealth in the U. S.; computed from the census of 1900 for this book by A. C. Pleydell," p.311-315.
 Points out the effects of privilege and monopoly in America.
- Hall, Bolton.** 330.4 H17t
 Things as they are, introduction by G. D. Herron. 1909. Arcadia Press.
 Essays and fables which set forth some of our social and economic wrongs.
- Hamilton, Walton Hale, ed.** 330.4 H21
 Current economic problems; a series of readings in the control of industrial development. 1915. University of Chicago Press.
Contents: The antecedents of modern industrialism.—The industrial revolution.—Social control in modern industrialism.—The pecuniary basis of economic organization.—Problems of the business cycle.—Problems of international trade.—The problem of railway regulation.—The problem of capitalistic monopoly.—The problems of population.—The problems of economic insecurity.—The problems of trade unionism.—Social reform and legal institutions.—Social reform and taxation.—Comprehensive schemes of social reform.
- Henderson, Charles Hanford.** 330.4 H44
 Pay-day. 1911. Houghton.
 Considers some of the chief causes of our present social unrest and finds a remedy for existing evils in the renovation and the union of industry and education. The main thesis is that social regeneration can be brought about only through the elimination of profit.
- Hollander, Jacob Harry, ed.** r 330.4 H72
 Reprint of economic tracts. [v.3.] 1914.
 v.3. Money answers all things, by Jacob Vanderlint.—The querist, by George Berkeley.—An essay on ways and means, by Francis Fauquier.—The natural rate of interest, by Joseph Massie.
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 For v.1-2 see preceding catalogue, v.4, 6.
- Minnesota University.** qr 330.4 M72
 Studies in the social sciences. no.1-6. 1913-16.
 no.1 title reads "Studies in economics."
 no.1-2. Social and economic survey of a rural survey in southern Minnesota, by C. W. Thompson and G. P. Warber.—Federal land grants to the states, with special reference to Minnesota, by M. N. Orfield.
 no.3. Early economic conditions and the development of agriculture in Minnesota, by E. V. Robinson.
 no.4-6. Studies in the marketing of farm products, by I. D. H. Weld.—Swamp land drainage, with special reference to Minnesota, by Ben Palmer.—Indian-white amalgamation; an anthropometric study, by A. E. Jenks.
- Money, Leo George Chiozza.** 330.4 M82
 The future of work, and other essays. [1914.] Unwin.
Contents: Poverty of production.—The future of work.—Capital and ideas.—Land in relation to British wealth.—The common accusation.—The ladder.—The rural wage.—The minimum wage in practice.—The new dearness.—The road to ruin.—Tariff reform, ten years after.—The single tax.
 "Begins with a vigorous onslaught upon the present industrial system, and then proceeds to tell us how different things would be if industry were organized in accordance with [his Utopian] conception of 'The Great State'... The limitations of the industrial point of view are apparent." *Economic review*, 1914.

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r 330.5 A51

American economic review; quarterly, March 1911–date. v.1–date. 1911–date.

Published by the American Economic Association.

History of economics

American Academy of Political and Social Science. r 306 A51 v.39

China; social and economic conditions. 1912. (In its *Annals*, v.39, p.1–178.)

"Sixteen articles on social and economic phases of Chinese life, largely written by English residents, educators and officials and Chinese students in this country." *A. L. A. booklist*, 1912.

Ashley, William James.

330.9 A82e

Economic organisation of England; an outline history; lectures delivered at Hamburg. 1914. Longmans.

"Suggestions for further reading," p.193–206.

"Admirable philosophical survey of English economic history from the self-sufficing manor of the thirteenth and the narrow gild of the fourteenth centuries down to the gigantic...monopolistic combinations of the twentieth century." *Nation*, 1914.

Bogart, Ernest Ludlow.

330.9 B58a

Economic history of the United States. 1913. Longmans.

"Bibliography," p.541–573; "Selected references" at the end of each chapter.

Intended as a text-book for high schools and colleges. Traces the growth of industry, agriculture, commerce and transportation from the colonial period to 1906.

Bogart, Ernest Ludlow, & Thompson, C. M. comp.

330.9 B58r

Readings in the economic history of the United States. 1916. Longmans.

Drachmann, Povl.

q 330.9 D77

Industrial development and commercial policies of the three Scandinavian countries; ed. by Harald Westergaard. 1915. Clarendon Press. (Carnegie Endowment for International Peace—Division of economics and history. Publications.)

The same.....qr 330.9 D77

Helfferich, Karl.

330.9 H42

Germany's economic progress and national wealth, 1888–1913. 1914. Germanistic Soc. of America.

The same.....r 330.9 H42

Careful statement, based on statistics, of Germany's remarkable economic growth during 25 years, shown in the increase of population, the development of industries, economic organization, commercial production, and national wealth.

Lipson, Ephraim.

330.9 L73

Introduction to the economic history of England. v.1. 1915. Black. v.1. The middle ages: The origin of the manor.—The manor and the open field system.—The break-up of the manor.—The agrarian revolution.—The growth of towns.—Fairs and markets.—The gild merchant.—Craft gilds.—The woollen industry.—Foreign trade.—Revenue and exchequer.

"Authorities," p.532–544.

Macgregor, David Hutchison.

330.9 M16

The evolution of industry. [1912.] Holt. (Home university library of modern knowledge.)

"Note on books," p.253-254.

Brief history of the development of the industrial system.

Millioud, Maurice.

330.9 M69

The ruling caste & frenzied trade in Germany, with an introduction by Sir Frederick Pollock. 1916. Houghton.

Author is (1916) professor of sociology at the University of Lausanne. He considers, in the main, three questions: (1) how we are to account for the national sentiment which supports the German government; (2) what were the aims and policy of the German expansion in the years before the war; (3) what made the ruling classes decide that their ends could not be attained without war.

"One of the best among the attempts...to ascertain the causes which led to the war. His account of the economic conditions which have grown up in Germany since 1871 displays a complete knowledge of the main and easily accessible facts...and a fair insight into matters known only to people actually engaged in finance and commerce." *London Times*, 1916.

Murray, Alice Effie.

330.9 M97

History of the commercial and financial relations between England and Ireland from the period of the restoration. 1903. King. (London School of Economics and Political Science. Studies in economics and political science.)

"Bibliography," p.445-467.

"Miss Murray had a distinguished career at Girton College...and was one of the first women students to obtain a doctorate in economics and political science. Her book is a useful and serious contribution to the history of the lamentable relations between England and Ireland, of special value to Irishmen as being written by an English student, and evidencing industry, care, and appreciation of economic facts." *Nation*, 1904.

Ogg, Frederic Austin.

330.9 O17

Social progress in contemporary Europe. 1912. Chautauqua Press. (Chautauqua reading circle literature.)

Contents: Points of view.—The 18th century background.—The old régime in France.—The revolution in France.—Napoleon and the new régime.—The transformation of English agriculture.—The industrial revolution in England.—Economic changes on the continent.—Political reform in England to 1832.—The growth of English democracy.—Popular government in Germany and northern Europe.—Popular government in the romance countries.—Popular government in eastern Europe.—The rule of the people in Switzerland.—Public protection of labor.—The care of the poor.—Germany and the common man.—The spread of social insurance.—The organization of labor.—Wages and savings.—Education.—The growth of socialism.

"Bibliography," p.361-364.

Perris, George Herbert.

330.9 P44

Industrial history of modern England. 1914. Paul.

"Short bibliography," p.583-593.

"Purpose...is to outline the facts and to interpret the spirit of the economic history of Great Britain in the last hundred and fifty years." *Introduction*.

Simons, Algie Martin.

330.9 S61

Social forces in American history. 1911. Macmillan.

Sets forth the economic and social foundations of American history. It marks our industrial evolution and the social classes successively brought into prominence during its progress. It outlines the struggles of the classes for power and shows how each victorious class in turn has used the power of government for its own ends. Finally, it points out the socialistic trend of these converging forces.

Weber, Ludwig, *ed.*

330.9 W37

Geschichte der sittlich-religiösen und socialen entwicklung Deutschlands in den letzten 35 jahren; zusammenhängende einzelbilder von verschiedenen verfassern. 1895.

331 Capital. Labor and wages

Bibliography

Talbot, Winthrop, *comp.*

qr 016.331 T15

Select bibliography of recent publications on the helpful relations of employers and employed. 1912. Privately printed.

United States—Library of Congress.

qr 016 U25b v.5

Additional references on the cost of living and prices; comp. under the direction of H. H. B. Meyer. 1912.

Bound with other bibliographies issued by the Library of Congress.
For edition which this supplements see preceding catalogue, v.6.

General works

Baltrušaitis, Juozas.

331 B21

Pigiausias ir geriausias darbininko pragyvenimas; arba, Ką daryti kad kooperacija gyvuotų ir tarptų. 1912. Pittsburgh.

Chicago—Mayor's commission on unemployment.

r 331 C43

Report. 1914.

"Bibliography," p.172-175.

Commons, John Rogers.

331 C73l

Labor and administration. 1913. Macmillan.

It is in his dealings with the concrete facts concerning labor matters that he is at his best. Those chapters bearing upon trade unions, municipal affairs and Wisconsin methods of dealing with industrial education and industrial conditions are worth study, for they are the result of first-hand knowledge and personal experience. He believes in the efficacy of coöperation and in the education which is indispensable to a mutual understanding. *Condensed from Nation, 1914.*

Contains chapter on the wage-earners of Pittsburgh.

Connecticut—Labor statistics bureau.

r 331 C75

Report (25th-27th) for the two years ended Nov. 30, 1912-16. 1912-16. (Public document no.23.)

Crosby, Ernest Howard.

331 C89

Labor and neighbor; an appeal to first principles. 1908. Post.

Essays which consider from the standpoint of the Christian socialist various forms of industrial injustice, showing the futility of some of the remedies proposed and finding relief for existing conditions in such measures as banking and currency reforms, single tax, and the abolition of the tariff. Published serially in the Chicago "Public" in 1908.

Fiske, Amos Kidder.

331 F54

Honest business; right conduct for organisations of capital and of labour. 1914. Putnam.

On the whole the author has made a remarkably clear presentation of the industrial conflict which exists, and the book in parts gives the impression that he seeks largely to refute some popular solutions of the industrial question. He advocates the incorporation of labor unions, and believes in the coöperation of organized labor and capital. His conclusions are that "honest, good faith and square dealing is best as a business policy," but nowhere does he definitely state that the ills of capital and labor may be cured by a prescribed remedy. *Condensed from American industries, 1915.*

Gladden, Washington.

331 G451

The labor question. 1911. Pilgrim Press.

Contents: The case against the labor union.—The reason for the unions.—Industry and democracy.—Cross-lights and counter-claims.—The church and the labor question.—Appendixes.

Clear presentation of the case for and against the labor union.

Haggood, Norman.

331 H24

Industry and progress; addresses delivered in the Page lecture series, 1910, before the senior class of the Sheffield Scientific School, Yale University. 1911. Yale University Press.

"Brief but forceful presentation of the social and ethical problems resulting from our industrial development... Especially sane and hopeful in temper are the sections dealing with trade unions and the trusts. It is a valuable book for young men about to go into business or for other non-technical readers." *Survey*, 1911.

Hollander, Jacob Harry.

331 H72

Abolition of poverty. 1914. Houghton.

Bibliography, p.115-122.

Author believes that poverty lies at the root of our social disturbances and that it may be abolished by the constructive reforms which he proposes relating to the question of wages.

Iowa—Labor statistics, Bureau of.

r 331 I25

Biennial report (15th-17th), 1910-1914/16. 1912-16.

For reports for 1897-1905 see preceding catalogue, v.6.

Jandus, William.

331 J17

Social wrongs and state responsibilities; it should require no argument to prove that industrial equity is incompatible with the private ownership of economic fundamentals. 1913. Carr.

"While there is much truth in the author's characterization of the methods of capitalistic control of credit, he does not adequately set forth the social function of credit, nor does he explicitly outline a substitute for capitalistic control. The implication is that the state shall... take on this responsibility." *American journal of sociology*, 1913.

Johnsen, Julia E. comp.

331 J35

Selected articles on unemployment. 1915. Wilson. (Debaters' handbook series.)

"Bibliography," p.19-40.

The same r 331 J35

Kellor, Frances Alice.

331 K16a

Out of work; a study of unemployment. 1915.

Record of practical investigations made in New York, Boston, Philadelphia and Chicago. The author and eight assistants visited several hundred employment agencies both as employers and as seekers of positions. Many abuses in the present system of employment agencies are revealed.

Leroy-Beaulieu, Pierre Paul.

331 L63

Essai sur la répartition des richesses et sur la tendance à une moindre inégalité des conditions. 1896. (Économistes et publicistes contemporains.)

Lincoln, Jonathan Thayer.

331 L71

The factory. 1912. Houghton.

Contents: The industrial revolution.—Sir Richard Arkwright.—Mechanical inventions.—The factory system.—The factory towns.—Chartism.—The factory and social progress. "Bibliographical note," p.9-10.

The author, a Fall River mill-owner, makes a compact and instructive study of the development of the factory system, beginning with its rise out of the old feudalistic conditions of labor, through the industrial revolution, down to the present time.

Maine—Labor and industry department.

r 331 M266

Biennial report (1st-2d), 1911-14, with the reports of the State board of arbitration and conciliation, 1911-14. 1913-15.

Created in 1911 to supersede the Bureau of industrial and labor statistics and the office of state factory inspector. Earlier reports will be found in Annual report of the Bureau of industrial and labor statistics (r 331 M26).

Massachusetts—Statistics bureau.

331 M45

Living conditions of the wage-earning population in certain cities of Massachusetts, with some comparisons between the United States and the United Kingdom. 1911. (Massachusetts—Statistics bureau. Annual report, 1910, v.41.)

Being an abstract of a report by the labour department of the British Board of trade.

The same. 1911. (In its Annual report, 1910, v.41, p.189-333.).....r 331 M456 v.41

Michigan—Labor and industrial statistics, Bureau of.

r 331 M66

Annual report (21st-26th), 1903/04-1908/09, including the Annual report of state inspection of factories (11th-16th), 1903/04-1908/09. 1904-09.

In 1909 this was superseded by the Annual report of the Department of labor.

Michigan—Labor department.

r 331 M668

Annual report, 1909/10-date. 1910-date.

Supersedes the Annual report of the Bureau of labor and industrial statistics.

Minnesota—Labor and industries department.

r 331 M72

Biennial report (13th-date), 1911-date. 1912-date.

Name of department was changed from Labor, industries and commerce bureau to Labor and industries department, August 1913.

For earlier reports see preceding catalogue, v.6.

Montana—Labor and industry department.

r 331 M84

Biennial report (1st), 1913/14. 1914.

Bureau of labor was formerly a part of the Bureau of agriculture, labor and industry.

This report includes the reports of the state boiler inspector, coal mines inspector and inspector of mines.

National Civic Federation.

r 331 N155

Annual meeting (11th-12th), 1911-12. [1911]-12.

The same (13th), 1913. 1914. (In National Civic Federation review, v.4, no.3.).....qr 331.1 N15 v.4

For volumes for 1908-09 see preceding catalogue, v.6.

Nearing, Scott.

331 N18i

Income; an examination of the returns for services rendered and from property owned in the United States. 1915. Macmillan.

"According to the old economic theory income divided itself into rent, interest, wages, and profits. This classification, Mr. Nearing points out, is outgrown...He distinguishes between income as a return for services and income as a return for property ownership. His purpose is to determine, by investigation into certain manufacturing industries, railroads and other corporations, the ratio of the one to the other. The result ... goes to show the disproportionate size of property income." *Book review digest*, 1915.

Nearing, Scott.

331 N18

Reducing the cost of living. 1914. Jacobs.

Examines carefully the causes of the increased cost of living and indicates broadly lines of reform.

- New York** (state)—Industries and immigration bureau. r 331 N2612a
Annual report (1st-date) 1910/11—date. 1912—date. (In New York
(state)—Labor department. Annual report, 1911/12—date, v.12—date.)
v.1, 1910/11, has been catalogued separately (r 331 N2616).
- New York** (city)—Chamberlain. r 331 N2617
A proposal in reference to unemployment in the winter of 1914, for
consideration by the mayor of the city of New York; prepared by Hen-
ry Bruère, city chamberlain. 1914.
- New York** (city)—Mayor's committee on qr 331 N2618
unemployment.
Report, Jan. 1916. 1916.
- O'Connor, John Joseph.** r 331 O13
The cost of living studies in Pittsburgh. 1914.
An attempt to assemble the important points of the different studies which have
been made of the cost of living in Pittsburgh.
- Ohio**—Industrial commission. r 331 O183
Report. no.1-25. 1914-16.
Issued by the Investigation and statistics department of the commission. This de-
partment succeeded the Ohio labor statistics bureau, Sept. 1, 1913.
- Pennsylvania**—Labor and industry department. r 331 P399
Annual report (1st-2d), 1913/14-1915. 1916.
- Pigou, Arthur Cecil.** 331 P57u
Unemployment. 1913. Holt. (Home university library of modern
knowledge.)
"Bibliography," p.253.
"Writing with special reference to conditions in England, the author makes a
thorough, scientific analysis of the causes of unemployment...He suggests various de-
vices for relieving the situation—unemployment insurance, direct state aid, etc.—but
recognizes that these are only palliatives. The clearness of treatment will commend it
to the general reader." *A. L. A. booklist, 1914.*
- Plater-Zyberkyté, C.** 331 P68
Darbas, laimės šaltinis; vertė St. Dyša. 1910.
- Redfield, William Cox.** 331 R27
New industrial day; a book for men who employ men. 1912. Cen-
tury.
Author believes in the economic value as well as in the equity of high wages for
good work, that the workman should be treated not as an expense but as an asset and
that he should share fairly and permanently in the profit resulting from his labor.
- Small, Albion Woodbury.** 331 S635
Between eras from capitalism to democracy; a cycle of conversa-
tions and discourses, with occasional side-lights upon the speakers.
1913. Inter-collegiate Press.
"Singular combination of conversations, discussions and moralizings, through which
is woven the thread of a story revolving about an extraordinary strike against 'The
Avery Company,' a great manufacturing concern of Chicago. The nature and evils of
the capitalist system are laid bare and a remedy sought. All sorts and conditions of
men—theorists, captains of industry, strikers, politicians, socialistic preachers—are
graphically presented." *A. L. A. booklist, 1913.*
"It would be difficult to find anywhere a more acute analysis of modern indus-
trialism and a surer statement of changed views." *National municipal review, 1913.*
- United States**—Industrial relations, Commission on. r 331 U2535
Annual report (1st), 1913/14. 1914.

United States—Industrial relations, Commission on. 331 U253

Final report of the Commission on industrial relations [F. P. Walsh, chairman], 1915. 1915.

Contains the Report of B. M. Manly, director of research and investigation; Report of Commissioner J. B. Lennon on industrial education; Report of Commissioners J. R. Commons and Florence J. Harriman on labor laws.

The same.....r 331 U2535f

Final report and testimony was issued in 1916 in 11 volumes with title "Industrial relations; final report and testimony" (r 331 U2535i).

United States—Labor bureau. r 331 U25re

Report on conditions of employment in the iron and steel industry in the United States. 4v. 1911-13. (62d cong. 1st sess. Senate. Doc. no.110, v.18-21.)

v.1. Wages and hours of labor.

v.2. Wages and hours of labor; general tables.

v.3. Working conditions and the relations of employers and employees.

v.4. Accidents and accident prevention.

United States—Labor department. r 331 U25rep

Reports, 1913-date; report of the secretary of labor and reports of bureaus. 1914-date.

Department was created by act of March 4, 1913. Earlier reports will be found in the Annual report of the Commerce and labor department (r 353.8 U253).

United States—Labor statistics bureau. r 331 U2536b

Bulletin; employment and unemployment, May 1916-date. no.1-date. 1916-date.

United States—Labor statistics bureau. r 331 U2536

Monthly review, July 1915-date. v.1-date. 1915-date.

Wallace, Alfred Russel. 331 W17

Revolt of democracy. 1913. Cassell.

Contains also "The life story of the author," by James Marchant.

"The socialistic, political and economic theories of...Dr. Wallace find vigorous expression in these pages. Perhaps, however, the most interesting part of the book lies in the biography of the author...which has been sympathetically written." *Spectator*, 1913.

Williams, Alfred. 331 W74

Life in a railway factory. 1915. Duckworth.

Study of labor in the railway shops at Swindon, England, where the author worked for 25 years.

"He deals adequately and in due proportion with every activity carried on inside the congested acre and a quarter occupied by the "shops" from the unskilled labourers washing coaches to highly trained fitters bending over their purring lathes...He enlivens his descriptions of their labours with typical character sketches and individual thumb-nail portraits drawn with a strong and careful touch." *Spectator*, 1916.

Willits, Joseph Henry. 331 W75

Steadying employment, with a section devoted to some facts on unemployment in Philadelphia. 1916.

Supplement to v.65, May 1916, of the "Annals of the American Academy of Political and Social Science."

The same. (In American Academy of Political and Social Science. Annals, v.65.).....r 306 A51 v.65

Issued as a supplement to "Personnel and employment problems in industrial management," ed. by Meyer Bloomfield and J. H. Willits.

Wisconsin—Industrial commission. r 331 W812

Bulletin, May 20, 1912-date. v.1-date. [1912]-date.

v.1, no.4; v.2, no.5-6 wanting.

Wisconsin—Industrial commission. r 331 W812p

[Publications.] v.1-2. 1913-15.

v.1. Bakeries and the public health.—Shop lighting; a handbook for superintendents and electricians.—General orders on safety building construction.—Labor camps in Wisconsin.—Child labor law, with explanatory notes.

v.2. Building code.

Relation of capital to labor**Beman, Lamar Taney, comp.** 331.1 B42a

Selected articles on the compulsory arbitration of industrial disputes. 1915. Wilson. (Debaters' handbook series.)

"Bibliography," pref. p.23-51.

The same. 1911.....331.1 B42*The same.* 1915.....r 331.1 B42ar 331.1 B57**Board of Arbitration in the Controversy between the Eastern railroads and the Brotherhood of Locomotive Engineers, 1912.**

Report of the board of arbitration appointed in conformity with an agreement of the parties made at New York city under date of April 30, 1912.

Cohen, Jules Henry. 331.1 C66

Law and order in industry; five years' experience. 1916. Macmillan.

History of the "protocol" in the cloak and suit industry in New York. Author was attorney for the manufacturers, and took part in drawing up the agreement in 1910.

Rockefeller, John Davison, jr. 331.1 R57

Colorado industrial plan, including a copy of the plan of representation and agreement adopted at the coal and iron mines of the Colorado Fuel and Iron Company. 1916. [Privately printed.]

The same.....r 331.1 R57**United States—Labor statistics bureau.** r 331.1 U25b

Bulletin; conciliation and arbitration, June 1913-date. no.1-date. 1913-date.

United States—Labor statistics bureau. r 331.1 U25

Mediation and arbitration laws of the United States, July 15, 1913. 1913.

United States—Mediation and conciliation board. r 331.1 U253

Annual report for the fiscal year ended June 30, 1914. 1914.

Wages**Andrews, Mrs Irene (Osgood).** r 331.2 A56

Minimum wage legislation. 1914.

Reprinted from the third report of the New York state factory investigating commission.

"Select bibliography," p.217-218.

Brown, Rome Green. r 331.2 B79m

"Minimum wage," in debate at the annual dinner of the National Retail Dry Goods Association, Feb. 10, 1915, between Norman Hapgood and R. G. Brown; negative argument by Brown. [1915. Adams.]

- Brown, Rome Green.** r 331.2 B79
 The minimum wage, with particular reference to the legislative minimum wage under the Minnesota statute of 1913. [Review Pub. Co.]
 Holds the Minnesota statute to be unworkable and unconstitutional. Text of statute is given, also summary of provisions of other states as to minimum wage.
- Foerster, Robert Franz.** 331.2 F68
 A promising venture in industrial partnership. 1912.
 Reprinted from the "Annals of the American Academy of Political and Social Science," Nov. 1912.
The same. (In American Academy of Political and Social Science. Annals, v.44, p.97-103.) r 306 A51 v.44
 Brief account of the industrial partnership scheme of the Dennison Manufacturing Company of Massachusetts.
- International Association on Unemployment.** qr 331.2 I24
 Bulletin trimestriel de l'Association Internationale pour la Lutte Contre le Chômage, 1911-date. v.1-date. 1911-date.
 v.1, no.1, title reads "Revue internationale du chômage."
- Kennedy, John Curtis, and others.** 331.2 K18
 Wages and family budgets in the Chicago stockyards district, with wage statistics from other industries employing unskilled labor. 1914. University of Chicago Press. (Study of Chicago's stockyards community no.3.)
- Massachusetts—Minimum wage boards, Commission on.** r 331.2 M45
 Report, Jan. 1912. 1912.
- Nearing, Scott.** 331.2 N18f
 Financing the wage-earner's family; a survey of the facts bearing on income and expenditures in the families of American wage-earners. 1913. Huebsch.
 A discussion of family budgets, food and clothing, sources of income, and other problems leads to the conclusion that in many instances the workingman is not paid sufficient wages to allow him to maintain a fair standard of living.
- O'Grady, John.** 331.2 O17
 A legal minimum wage. 1915. [National Capital Press.]
 "Bibliography," p.138-139.
 Thesis for Ph. D., Catholic University of America.
- Parker, Walter Wales, comp.** r 331.2 P24
 Salary and wage tables. 1913.
 Publication authorized by the secretary of war.
 Computations arranged in tables, as a means of finding readily the amount of wages for a definite period of time at a given daily rate of pay.
- Reely, Mary Katharine, comp.** 331.2 R28
 Selected articles on minimum wage. 1913. Wilson. (Debaters' handbook series; abridged.)
 "Bibliography," p.7-11.
The same. r 331.2 R28
The same. 1917. Wilson. (Debaters' handbook series.) r 331.2 R28a
- Stephens, George Asbury.** qr 331.2 S83
 Influence of trade education upon wages. 1911.
 Thesis for Ph. D., University of Chicago.
 Briefly reviews the rise and development of the system of apprenticeship as a means of trade education and urges a course of training which shall combine the advantages of the apprenticeship system with those of the trade school.

United Mine Workers of America. r 331.2 U253

Detailed mining scale for Pittsburg district no.5, effective from April 1, 1910 to March 31st, 1912. 1911. Devine. Pittsburgh.

United States—Labor statistics bureau. r 331.2 U2533

Bulletin; wages and hours of labor, Aug. 1913–date. no.1–date. 1913–date.

One of the series continuing the bulletin formerly issued bimonthly by the Labor bureau of the United States.

United States—Labor statistics bureau. r 331.2 U2532

Bulletin; workmen's insurance and compensation, including laws relating thereto, July 1912–date. no.1–date. 1912–date.

Issued by the Labor bureau of the United States department of commerce and labor until March 1913, when that bureau became the Labor statistics bureau of the Labor department.

Williams, Aneurin. 331.2 W74

Co-partnership and profit-sharing. 1913. Holt. (Home university library of modern knowledge.)

"Bibliography," p.253–254.

"From the point of view of Capital rather than of Labour...The assumption is made that business experience, technical skill, and organizing power are to be found solely among the employers...A clear if one-sided account of Co-partnership and Profit-sharing in themselves, and of the aims and ideals of the employers concerned." *Athenæum*, 1914.

Workmen's insurance**Bullock, Edna Dean, comp.** 331.2 B87

Selected articles on compulsory insurance. 1912. Wilson. (Debaters' handbook series.)

"Bibliography," p.17–35.

The same.....r 331.2 B87

Carr, Arthur Strettell Comyns, and others, ed. 331.2 C22a

National insurance, with a preface by D. Lloyd George. 1913. Macmillan.

The same. 1912.....331.2 C22

"In the National Insurance Act it has been our aim to provide as far as may be for every worker some kind of shelter against the slings and arrows of fortune." Lloyd George, in preface.

"Able exposition of the [British national insurance act of 1911] and its effects upon the various classes of persons concerned, the section on the medical profession being specially clear." *Athenæum*, 1912.

Dawson, William Harbutt. 331.2 D33

Social insurance in Germany, 1883–1911; its history, operation, results and a comparison with the national insurance act, 1911. 1912. Unwin.

"Exhaustive and thoroughly scientific exposition of the laws governing social insurance in Germany, comparing them in every case with the provisions of the new English insurance law. The author emphasizes the methods and success of the measures taken against disease and accident under the German law and contends that they have raised the entire moral and political level of the lower classes." *A. L. A. booklist*, 1912.

Friedensburg, Ferdinand. 331.2 F94

The practical results of workingmen's insurance in Germany; tr. from the German by L. H. Gray. 1911. [Workingmen's Compensation Service and Information Bureau.]

The same.....r 331.2 F94

Gibbon, Ioan Gwilym.

331.2 G36m

Medical benefit; a study of the experience of Germany and Denmark. 1912. King.

"Full, practical and well arranged study of one aspect of health insurance, as administered in the two countries which have had the longest experience, the one under a compulsory, the other under a voluntary, system. The curative side of the medical benefit alone is treated, prevention being left for a later volume of a thorough study by the same author of the whole subject of national health insurance,—a study to which this volume is preliminary." *Survey*, 1913.

Home labor

Massachusetts—Statistics bureau.

r 331.236 M45

Industrial home work in Massachusetts, by the Department of research, Women's Educational and Industrial Union, Boston; prepared under the joint direction of the Massachusetts Bureau of statistics and Amy Hewes, supervisor of investigation for the Department of research. 1915. (Women's Educational and Industrial Union, Boston. Studies in economic relations of women, v.7.)

"Home work bibliography," p.150-175.

Child labor

Bibliography

United States—Library of Congress.

r 016.3313 U25

List of references on child labor; comp. under the direction of H. H. B. Meyer. 1916. (United States—Children's bureau. Industrial series, no.3.)

L. A. Thompson, librarian of the Children's bureau, has assisted in the preparation of the list but the greater part of the work was done by the Library of Congress.

The same. [Ed.2.] 1916. (In United States—Children's bureau. Industrial series, no.3.).....r 331.3 U25 no.3

General works

Bullock, Edna Dean, comp.

331.3 B87a

Selected articles on child labor. 1915. Wilson. (Debaters' handbook series.)

"Bibliography," p.11-26.

The same.....r 331.3 B87a

The same. 1911.....331.3 B87

The same.....r 331.3 B87

"Bibliography," p.9-20.

Chicago School of Civics and Philanthropy.

q 331.3 C43

Finding employment for children who leave the grade schools to go to work; report to the Chicago Woman's Club, the Chicago Association of Collegiate Alumnae and the Woman's City Club. [1911.] (Russell Sage foundation.)

The same.....qr 331.3 C43

"Selected bibliography relating to employment supervision," p.53-56.

The first paper is a plea for employment supervision in city schools; the second, and longest, is a preliminary report on opportunities of employment in Chicago open to girls under 16; and the third briefly considers juvenile labor exchanges as conducted in England and Germany.

Clopper, Edward Nicholas.

331.3 C61

Child labor in city streets. 1912. Macmillan.

"Bibliography," p.245-254.

"Full presentation of a comparatively little studied phase of child labor—the street employment of children, as newsboys, bootblacks, peddlers and messengers. The demoralizing agencies of street life, its relation to delinquency and the development of regulation in this country and Europe are discussed." *A. L. A. booklist*, 1912.

Dawley, Thomas Robinson.

331.3 D33

The child that toileth not; the story of a government investigation that was suppressed. [1913.] Gracia Pub. Co.

Author is a former investigator sent into the South by the Department of commerce and labor to look into the employment of children in the cotton mills. He compares their lot in the mills with the idle lives they lead on the mountain farms, and maintains that under these conditions such employment is not only harmless but a positive blessing. Many illustrations.

Hiatt, James Smith.

qr 331.3 H52

The child, the school and the job; an address. [1912.] Public Education Assoc. (Public Education Association. Study no.39.)

Reprinted from the "City Club bulletin," Dec. 27, 1912.

Markham, Charles Edwin, and others.

331.3 M39

Children in bondage; a complete and careful presentation of the anxious problem of child labor, its causes, its crimes and its cure, by Edwin Markham, B. B. Lindsey and George Creel. 1914. Hearst's International Library Co.

"A brief bibliography," p.403-405.

National Child Labor Committee.

r 331.3 N15c

Child labor bulletin; quarterly, June 1912–date. v.1–date. 1912–date.

For contents see Contents book kept at the reference desk.

National Child Labor Committee.

331.3 N15cl

Child labor laws in all states. [1912.]

v.1, no.2, August 1912, of the "Child labor bulletin."

The same. 1912. (In its Child labor bulletin, v.1, no.2.)..r 331.3 N15c

National Child Labor Committee.

r 331.3 N15ch

The child's burden in oyster and shrimp canneries; investigation made by L. W. Hine and E. F. Brown in 1912 and 1913. [1913.]

National Child Labor Committee.

qr 331.3 N15

Leaflet. no.27-68. 1909-16.

Leaflet no.39, 43, 48, 67 wanting.

For no.1-26 see preceding catalogue, v.6.

National Child Labor Committee.

r 331.3 N15p

Pamphlet. no.186–date. [1913]–date.

Condensed from papers appearing in the "Child labor bulletin" (r 331.3 N15c).

no.193, 202-211, 213-214, 219, 222, 233 wanting.

National Child Labor Committee.

331.3 N15u

Uniform child labor laws. 1911.

v.38, no.1, supplement, July 1911, of the "Annals of the American Academy of Political and Social Science."

With this is bound "Uniform child labor law [adopted by the United States commissioners on uniform laws, Aug. 1911]."

The same [without supplement]. 1911. (In American Academy of Political and Social Science. Annals, v.38.).....r 306 A51 v.38

Sumner, Helen Laura, & Merritt, E. A. comp. 331.3 S95

Child labor legislation in the United States. 1915. (United States—Children's bureau. Industrial series, no.1.)

The same. (In United States—Children's bureau. Industrial series, no.1.) r 331.3 U25 no.1

Talbert, Ernest Lynn. 331.3 T15

Opportunities in school and industry for children of the stockyards district; an investigation carried on under the direction of the Board of the University of Chicago settlement. 1912. University of Chicago Press. (Study of Chicago's stockyards community, no.1.)

Will be of interest also in other cities. One section (p.41-53) considers "Some phases of the problem of vocational direction" and the summary (p.60-62) gives in concise form "Some essentials of vocational direction."

United States—Children's bureau. r 331.3 U25

Industrial series. no.1-3. 1915-17.

no.1. Child labor legislation in the United States.

no.2. Administration of child labor laws.—Employment, certificate system, New York.

no.3. List of references on child labor.

United States—Labor bureau. 331.3 U25b

Beginnings of child labor legislation in certain states; a comparative study. 1910. (61st cong. 2d sess. Senate. Doc. no.645.)

The same. 1910. (In its Report on condition of woman and child wage-earners in the United States, v.6.) r 331.4 U25r v.6

United States—Labor bureau. 331.3 U25

Conditions under which children leave school to go to work. 1910. (61st cong. 2d sess. Senate. Doc. no.645.)

The same. 1910. (In its Report on condition of woman and child wage-earners in the United States, v.7.) r 331.4 U25r v.7

Women in industry

Bullock, Edna Dean, comp. 331.4 B876

Selected articles on the employment of women. 1911. Wilson. (Debaters' handbook series.)

"Bibliography," p.9-18.

The same. r 331.4 B87

Butler, Elizabeth Beardsley. 331.4 B97s

Saleswomen in mercantile stores, Baltimore, 1909. 1912. Charities Pub. Committee. (Russell Sage foundation.)

"Out of the immediate need of the Consumers' League of Maryland for information on which to base the preparation of a 'white list' of stores in Baltimore has come a volume which is likely to be of service not only to that city, but also to many others, in studying and improving the conditions in their retail stores. It is marked by careful observation and fair appraisal." *Survey*, 1912.

Connecticut—Labor statistics bureau. r 331.4 C75

Report on the conditions of wage-earning women and girls. 1914.

Goldmark, Josephine Clara. 331.4 O22
Labour laws for women in the United States. 1907. (London, Women's Industrial Council. Publications.)

"Short list of books and articles recommended to students," p.14.
Bound with Okey's "Labour laws for women in Italy."

Hutchins, Miss B. Leigh. 331.4 H96w
Women in modern industry, with a chapter contributed by J. J. Mallon. 1915. Bell.

Contents: Sketch of the employment of women in England before the industrial revolution.—Women and the industrial revolution.—Statistics of the life and employment of women.—Women in trade unions.—Summary and conclusion of [preceding chapters].—Women's wages in the wage census of 1906, by J. J. Mallon.—The effects of the war on the employment of women.—Appendix.

"Authorities," p.299-304.

Massachusetts—House of representatives. r 331.4 M45

Report of the special committee to investigate the conditions under which women and children labor in the various industries and occupations, Jan. 1914. 1914.

Montgomery, Louise. 331.4 M86

The American girl in the stockyards district; an investigation carried on under the direction of the Board of the University of Chicago settlement and the Chicago alumnae club of the University of Chicago. 1913. University of Chicago Press. (Study of Chicago's stock yards community no.2.)

Thompson, Mrs Flora (McDonald). r 331.4 T38

Bureau of woman labor; letter petitioning the secretary of labor for the establishment of a Bureau of woman labor in the Department of labor. 1913. (United States. 63d cong. 1st sess. Senate. Doc.no.38.)

United States—Labor bureau. r 331.4 U25r

Report on condition of woman and child wage-earners in the United States. v.13-19. 1912-13. (61st cong. 2d sess. Senate. Doc. no.645, v.98-104.)

v.13. Infant mortality and its relation to the employment of mothers.

v.14. Causes of death among woman and child cotton-mill operatives.

v.15. Relation between occupation and criminality of women.

v.16. Family budgets of typical cotton-mill workers.

v.17. Hookworm disease among cotton-mill operatives.

v.18. Employment of women and children in selected industries.

v.19. Labor laws and factory conditions.

Binder's title reads "Woman and child wage-earners."

For v.1-12 see preceding catalogue, v.6.

—Summary. 1916. (In United States—Labor statistics bureau. Bulletin; women in industry, no.5.)..... r 331.4 U253 no.5

United States—Labor statistics bureau. r 331.4 U253

Bulletin; women in industry, April 1913-date. no.1-date. 1913-date.

One of the series continuing the bulletin formerly issued bimonthly by the Labor bureau of the United States.

Van Kleeck, Mary. 331.4 V19

Artificial flower makers. 1913. Survey Associates. (Russell Sage foundation.)

The artificial flower trade was chosen for intensive study because it offers concrete illustration of several large industrial problems—seasonal work, child labor, lack of

Van Kleeck, Mary—*continued*.

331.4 V19

skill, and the home work system. The book is primarily a study of the "American way," which permits the transformation of a handicraft capable of the most artistic possibilities into a process as mechanical as finishing buttonholes or punching eyelets. *Condensed from Survey, 1913.*

Van Kleeck, Mary.

331.4 V19w

Women in the bookbinding trade, introduction by H. R. Seager. 1913. Survey Associates. (Russell Sage foundation.)

Careful study, based on visits to establishments and to the homes of workers. Throws much light on the chaotic conditions in the trade, the evils of low wages, irregular employment, long hours, and unfavorable home conditions. Concluding chapter gives summary of changes necessary to establish right standards and places the responsibility of attaining them upon the public, the employers and the workers.

Van Kleeck, Mary.

331.4 V19wo

Working girls in evening schools; a statistical study. 1914. Survey Associates. (Russell Sage foundation.)

An inquiry into the occupations of the girls and women attending evening school in New York city, 1910-11, rather than an investigation of evening school methods. As a record of changing conditions of industry; long hours, and specialized tasks; evidences of exploitation of workers; an early beginning of the wage-earning career, and consequently, a short period for schooling, the facts secured are a contribution to the study of current educational and industrial problems.

Wisconsin—Industrial commission.

r 016.3314 W81

Women and children in industry; data for women's clubs and other civic organizations. [1914.]

"Bibliography," p.11-22.

Women's Educational and Industrial Union, Boston. qr 016.3312 W85

Salaries of men and women with college or professional training; references prepared in answer to request from eastern university. 1912? Type-written copy.

Convict labor

Pennsylvania—Penal commission.

r 331.51 P399

Employment and compensation of prisoners in Pennsylvania; report of the Penal commission appointed under authority of an act approved July 25, 1915. 1915.

Pennsylvania. Statutes.

r 331.51 P39

Penal legislation of 1915 in the commonwealth of Pennsylvania; employment of prisoners. 1915. Pa. Prison Soc.

Issued as supplement to no.54 of the "Journal of prison discipline and philanthropy."

United States—Labor statistics bureau.

r 331.51 U25

Federal and state laws relating to convict labor; a compilation of all Federal and state laws relating to convict labor, setting forth all legislation regulating the sale and transportation of convict-made products in so far as the same relates to interstate commerce, and information tending to show the effect on free labor of the sale of convict-made goods. 1914. (63d cong. 2d sess. Senate. Doc. no.494, v.17.)

United States—Library of Congress.

qr 016 U25b v.6

List of references on prison labor; comp. under the direction of H. H. B. Meyer. 1915.

Bound with other bibliographies issued by the Library of Congress.

Whitin, Ernest Stagg.

331.51 W64

Penal servitude. 1912. National Committee on Prison Labor.

Brief summary of the findings of the National Committee on Prison Labor, of which Mr Whitin is (1912) secretary. Valuable on account of the author's economic training and his acquaintance with actual conditions.

Laboring classes

Alden, Percy.

331.8 A35

Democratic England, with an introduction by C. F. G. Masterman. 1912. Macmillan. (Chautauqua reading circle literature, 1914.)

Contents: The general situation.—The child and the state.—The problem of sweating.—The problem of the unemployed.—State insurance against sickness.—The problem of old age.—The problem of housing the poor.—Municipal ownership.—The labor movement in England.—The land and the landless.

"Excellent studies of recent English economic and sociological problems, the Liberal measures enacted for their solution, and present conditions." *A. L. A. booklist*, 1912.

Bayer (Friedr.) & Co.

r 331.8 B33

Wohlfahrtseinrichtungen der farbenfabriken vorm. Friedr. Bayer & Co. 1910.

Chase, Mrs Margaret Hatfield, & Chase, Stuart.

331.8 C39

A honeymoon experiment. 1916. Houghton.

Records the industrial struggles and the living arrangements of a young couple who spent eight weeks as working-people in Rochester, N. Y., in an endeavor to learn how the other half lives. Single tax and equal suffrage are among the solutions offered for bettering conditions.

Chicago—Municipal markets commission.

r 331.8 C432

Report to the mayor and aldermen on a practical plan for relieving destitution and unemployment in the city of Chicago. 1914.

Chicago—Public welfare department.

r 331.8 C4322

Semi-annual report (1st), March 15, 1915. [1915.]

This department was created to collect information and improve conditions among the unemployed and to make recommendations for the betterment of living conditions among the poor of the city.

Dole, Charles Fletcher.

331.8 D69

The burden of poverty, what to do. 1912. Huebsch. (Art of life series.)

"Poverty is only a phase in the process of evolution, according to Dr. Dole, and cannot be traced to any single responsible class. Methods of general relief are indicated, through the elimination of such detrimental extravagances as the drink habit, preventable accidents and sickness, unemployment, fire loss, government wastes, etc. The most significant chapters in this suggestive little book, perhaps, are: Socialism and its difficulties; A social program [and] The control of the land." *A. L. A. booklist*, 1912.

England—Royal commission on congestion in Ireland.

qr 331.8 E64

Final report. 1908.

"List of publications issued by the commission," p.5.

Investigation of conditions in western districts, inquiry into the operation of recent parliamentary acts on the subject, and suggested remedial measures.

Hartness, James.

331.8 H33

The human factor in works management. 1912. McGraw.

Consideration of the most vital factor in scientific management—the welfare of the worker.

- Henderson, Charles Richmond.** 331.8 H44
 Citizens in industry. 1915. Appleton. (Social betterment series.)
 "Bibliography," p.329-338.
 Discussion of the need for welfare work and the mutual benefit to be derived from a closer industrial relation between employer and employee.
- Holdsworth, John Thom.** 331.8 H71
 Report of the economic survey of Pittsburgh. [1912. Pittsburgh.]
The same.....r 331.8 H71
Contents: Letter of transmittal.—Scope and method.—Summary of findings and recommendations.—The smoke problem.—Workingmen's homes.—Food.—Rents.—Wages.—Unemployment.—The cost of living.—The cost of living problem in Pittsburgh.—Recreation facilities.—Public comfort stations.—Municipal taxation and administration.—Uneconomical use of land.—Municipal efficiency and economy.—Municipal reference library.
 Report of the survey appointed by Mayor Magee to investigate conditions in the city which affect its industrial and commercial prosperity, and to make comparisons in these respects with other cities.
- qr 331.8 H92
- Human engineering; quarterly, 1911-Aug. 1912.** v.1-v.2, no.2. 1911-12.
 Published to provide a means of exchanging experiences on the human side of industry and to open a forum for discussion of the conservation of human energy.
- Kelley, Florence Molthrop.** 331.8 K16
 Modern industry in relation to the family, health, education, morality. 1914. Longmans.
 Miss Kelley has been active in the cause of industrial reform, especially as state inspector of factories in Illinois and as general secretary of the National Consumers' League. She indicates the forces in American industry which tend to disintegrate family life and otherwise injure the worker. Eloquent and convincing because of the many actual examples she gives of oppression and wrong which have come to her knowledge.
- King, Clyde Lyndon.** 331.8 K26
 Lower living costs in cities; a constructive programme for urban efficiency. 1915. Appleton. (National Municipal League series.)
Contents: Introduction.—Urban food costs.—Other urban living costs: Productivity through health conservation; Vitality through recreation.—Elements in a constructive housing program.—Educational costs versus educational results.—Lower utility costs.—Taxation and government efficiency.
 Author finds three factors involved: (1) the increasing ratio of consumers to producers, (2) the want of social foresight in city planning, (3) the low average wage of workers.
 "Contains no revolutionary theories or programs...A study of the forces now actively at work to make...American cities efficient democracies and to give to residents of American cities ample opportunities for maximum returns in pleasure, health, recreation, and wages at minimum expenditures." *Introduction.*
- National Consumers' League.** r 331.8 N15
 Report, 1909-date. 1914-date.
 Contains bibliography.
- New York (city), Association for Improving the Condition of the Poor.** r 331.8 N2612
 Constructive social measures; a review of two years' work, Department of social welfare (Milbank memorial fund) of the New York Association for Improving the Condition of the Poor. 1915.
- Pennsylvania—Labor and industry department.** r 331.8 P399
 Monthly bulletin; a bulletin of information for the public, June 1914-date. v.1-date. 1914-date.
 "Safety standards," v.1-date, issued by the Industrial board, appears in this bulletin.

Pittsburgh, Christian Social Service Union. 331.8 P674

"The strip," a socio-religious survey of a typical problem section of Pittsburgh, Pa. made by the Pittsburgh Christian Social Service Union, the Methodist Episcopal Church Union and other co-operating agencies, July-Sept. 1915. 1916. [Pittsburgh.]

The same.....r 331.8 P674

Pittsburgh Survey. 331.8 P67p

Pittsburgh district civic frontage. 1914. Survey Associates. (Russell Sage foundation.)

The same.....r 331.8 P67p

Contents: THE COMMUNITY: Pittsburgh the year of the survey; Pittsburgh, an interpretation of its growth; Coalition of Pittsburgh's civic forces.—CIVIC CONDITIONS: Civic improvement possibilities in Pittsburgh; 35 years of typhoid; The housing of Pittsburgh's workers; Three studies in housing and responsibility; The aldermen and their courts; The disproportion of taxation in Pittsburgh.—CHILDREN AND THE CITY: Pittsburgh schools; The playgrounds of Pittsburgh; The public library; Pittsburgh as a foster mother.

v.5 of the Findings of the Pittsburgh Survey.

Pittsburgh Survey. 331.8 P67w

Wage-earning Pittsburgh. 1914. Survey Associates. (Russell Sage foundation.)

The same.....r 331.8 P67w

Contents: COMMUNITY AND WORKSHOP.—RACE STUDIES: Immigrant wage-earners; A Slav's a man for a' that; Mediæval Russia in the Pittsburgh district; 100 negro steel workers.—INDUSTRY: Wage-earners of Pittsburgh; Factory inspection in Pittsburgh; Industrial hygiene of the Pittsburgh district; Sharpsburg, a typical waste of childhood.—The reverse side.—Appendices.

v.6 of the Findings of the Pittsburgh Survey.

331.8 R35

Report of the Lawrence survey; studies in relation to Lawrence, Mass., made in 1911, under the advice of F. H. McLean by R. E. Todd and F. B. Sanborn' at the procurement of the trustees of the White fund. 1912.

Contents: Introduction, by W. E. Rowell.—The plan of the survey, by F. H. McLean.—Topography of Lawrence, by A. D. Marble.—Letter of the city engineer.—Housing conditions, by R. E. Todd.—Public health, by F. B. Sanborn.

The same.....r 331.8 R35

Taylor, Graham Romeyn. 331.8 T25

Satellite cities; a study of industrial suburbs. 1915. Appleton. (National Municipal League series.)

Contents: The outer rings of industry.—Rediscovering an employer's Utopia.—A modern Lear; a parenthetical chapter, by Jane Addams.—Industry's escape from congestion.—Economic gain and civic isolation.—A city by decree [Gary, Ind.].—The emergence of democracy.—Town building by private enterprise.—Community planning.—Appendix: Satellite cities from various viewpoints, by C. M. Robinson [and others].

United States—Labor statistics bureau. r 331.8 U253

Bulletin; miscellaneous, Oct. 1912–date. no.1–date. 1913–date.

Issued by the Labor bureau of the United States department of commerce until March 1913, when that bureau became the Labor statistics bureau of the Labor department.

One of the series continuing the bulletin formerly issued bimonthly by the Labor bureau of the United States.

Washington, Booker Taliaferro. 331.8 W27

The man farthest down; a record of observation and study in Europe [written] with the collaboration of R. E. Park. 1912. Doubleday.

Contents: Hunting the man farthest down.—The man at the bottom in London.—From Petticoat lane to Skibo castle.—First impression of life and labour on the continent.—Politics and races.—Strikes and farm labour in Italy and Hungary.—Naples and

Washington, Booker Taliaferro—*continued.*

331.8 W27

the land of the emigrant.—The labourer and the land in Sicily.—Women and the wine harvest in Sicily.—The church, the people and the Mafia.—Child labour and the sulphur mines.—Fiume, Budapest and the immigrant.—Cracow and the Polish Jew.—A Polish village in the mountains.—A Russian border village.—The women who work in Europe.—The organization of country life in Denmark.—Reconstructing the life of the labourer in London.—John Burns and the man farthest down in London.—The future of the man farthest down.

"Record of the condition of the lowest laboring classes in Europe made from observation and study during an eight weeks' trip abroad. Written with characteristic directness and optimism to show that the negro in America is far more fortunate in industrial and educational opportunities than these European laborers." *A. L. A. booklist*, 1912.

331.8 W56

West side studies [New York], carried on under the direction of Pauline Goldmark. [2v. 1914. Survey Associates.] (Russell Sage foundation.)

v.1. Boyhood and lawlessness.—The neglected girl, by R. S. True.

v.2. The middle west side; a historical sketch, by O. G. Cartwright.—Mothers who must earn, by Katharine Anthony.

The studies cover a tenement district of 80 blocks between 34th and 54th streets along the Hudson.

Hours of labor

Bogardus, Emory Stephen.

r 331.81 B58

Relation of fatigue to industrial accidents. 1912. [University of Chicago Press.]

Reprinted from the "American journal of sociology," v.17, 1911-12.

Thesis for Ph.D., University of Chicago.

Fitch, John Andrews.

r 331.81 F55

Hours of labor in the steel industry; a communication to 15,000 stockholders of the United States Steel Corporation. [1912.]

Brief statement regarding the twelve-hour day and the seven-day week in the steel industry.

Frankfurter, Felix, & Goldmark, J. C.

331.81 F87

The case for the shorter work day, Supreme court of the United States, Oct. term, 1915, Franklin O. Bunting, plaintiff in error, vs. the state of Oregon, defendant in error; brief for defendant in error. 2v. in 1. [1916.] National Consumers' League.

"List of sources quoted," p.985-1021.

Parts 1-2 were prepared under the direction of L. D. Brandeis and contain sections on industrial hygiene as affected by long hours of labor.

The same.....r 331.81 F87

Goldmark, Josephine Clara.

331.81 G58

Fatigue and efficiency; a study in industry, introduction by F. S. Lee. 1912. Charities Publication Committee. (Russell Sage foundation.)

"Miss Goldmark places the facts of overwork and overstrain in a new light through an analysis of laboratory studies in the problem of fatigue...Much of the space of the book is given to an analysis of existing labor laws and a criticism of the methods employed in their enforcement. The book contains, in addition to its three hundred pages of text, the substance of the briefs submitted to the courts by Mr. Louis D. Brandeis and Miss Goldmark in defense of the ten-hour laws of Oregon and Illinois and the fifty-four hour law of Ohio." *Dial*, 1912.

- Massachusetts**—Labor statistics bureau. qr 331.81 M45
 Hours of labor in domestic service; prepared from information collected by the Women's Educational and Industrial Union of Boston. 1898.

Industrial accidents. Employers' liability

Bibliography

- United States**—Library of Congress. qr 016 U25b v.4
 Select list of references on employers' liability and workmen's compensation; comp. under the direction of H. H. B. Meyer. 1911.
 Bound with other bibliographies issued by the Library of Congress.

General works

- American Academy of Political and Social Science.** 331.823 A51
 Risks in modern industry. 1911.
 v.38, no.1, July 1911, of the "Annals of the American Academy of Political and Social Science."
The same. 1911. (In American Academy of Political and Social Science. Annals, v.38.).....r 306 A51 v.38
- Boyd, James Harrington.** 331.823 B66
 Workmen's compensation and industrial insurance under modern conditions, including a full text of the statutes in force Jan. 1, 1913, in Germany, England and the several states of America. 2v. 1913. Bobbs.
 "Complete presentation of the subject, showing the underlying causes, explaining the effects on both employer and employee [and] setting forth the methods...in actual practice." *Cold storage and ice trade journal*, 1913.
r 331.823 C73
- Commission on Workmen's Compensation Laws (American Federation of Labor and National Civic Federation).**
 Workmen's compensation; report upon operation of state laws, investigation by commission of the American Federation of Labor and the National Civic Federation; commission's findings, views of employers and workmen, digest of laws, rules of state boards of award. 1914. (63d cong. 2d sess. Senate. Doc. no.419, v.10.)
- Connecticut**—Compensation commissioners. r 331.823 C75
 Bulletin, Nov. 1913–Jan. 1914. no.1–4. 1913–14.
- Deiser, George Fearheller, & Johnson, F. W.** r 331.823 D38
 Claims; fixing their values. 1911. McGraw.
 Intended to assist the claim adjuster in fixing the value of claims for damages based upon personal injuries.
- Department reports of Pennsylvania.** qr 331.823 D43
 Workmen's compensation and state insurance form book. 1916.
 Issued as supplement to "Department reports of Pennsylvania," v.2, no.6, Feb. 11, 1916.
- Driggers, G. H.** r 331.823 D82
 True situation in Washington with regard to the state managed workmen's compensation fund. [1913.] Market World and Chronicle Print.

England—Accidents committee. qr 331.823 E648

Report of the departmental committee on accidents in places under the factory and workshop acts [with minutes of evidence and appendix]. 1911.

Garrett, Charles Wilbur. qr 331.823 G19

Workmen's compensation legislation in the United States of America. [1912.]

"Literature on compensation," p.9.

Being v.2, p.3-10 of "Human engineering."

Brief digest of the history of the workmen's compensation movement and the progress of state legislation on the subject.

Harper, Samuel Alain. qr 331.823 H28

Workmen's compensation in Illinois. [1911. Northwestern University Law Pub. Assoc.]

Reprinted from the "Illinois law review," v.6, no.3-4, Oct.-Nov. 1911.

Illinois—Labor statistics bureau. r 331.823 I22

Bulletin; workmen's compensation act, 1912. 1912.

Maxwell, Harry Z. comp. r 331.823 M52

Handbook of the Pennsylvania workmen's compensation act of 1915, containing a digest, full text of associated acts, rulings of the board and a comprehensive index. 1916. [Ware.]

Recommended for use by the Workmen's Compensation Board of Pennsylvania.

Ohio—Employers' liability commission. r 331.823 O18

Report. pt.1, 3. 1911.

pt.1. Report, Jan. 1911.

pt.3. Final report, April 1911.

With pt.3 are bound "Investigation made for the commission into industrial accidents occurring in Cuyahoga county, Ohio, Nov. 1905 to Jan. 1911," by E. E. Watson [and others], and "Employees' compensation code."

Oklahoma University. r 331.823 O22

Workmen's compensation. 1915. (Bulletin; university extension series, no.24.)

"Bibliography, workmen's compensation; selections from bibliography of the Library of Congress on workmen's compensation, supplemented with selections from the Readers' guide, 1912-15," p.121-127.

Prepared for the use of debaters.

Packer, Launcelot. r 331.823 P12

Workmen's compensation; history and operation of workmen's compensation in Great Britain. 1912. (United States. 62d cong. 2d sess. Senate. Doc. no.618.)

Paterson, James Venn. r 331.823 P29

Workmen's compulsory compensation system, state of Washington, a proved failure and a business menace; review, by an employer, of the First annual report of the Industrial insurance commission. [1913.]

Pennsylvania—Industrial accidents commission. r 331.823 P39

Report, 1912. 1912.

Exhibits: A. Act amending the Factory act of 1905.—B. Act requiring employers to make reports of accidents.—C. Joint resolution amending section 21 of article 3 of the constitution of Pennsylvania.—D. Workmen's compensation law.—E. Act providing

Pennsylvania—Industrial accidents com.—*continued.* r 331.823 P39
for the incorporation and regulation of employers' mutual insurance associations.—
F. Act regulating policies of insurance.—G. Act authorizing the appointment of an Industrial accidents commission.

Rhode Island—State library—Legislative reference bureau. 331.823 R38

Employer's liability and workmen's compensation, by E. A. Adams and W. E. Sprackling. 1912. (Bulletin no.5, Jan. 1912.)

The same.....r 331.823 R38
Contains a digest of the laws of the states, with an original draft of a proposed bill and arguments for the provisions thereof.

United States—Commerce and labor department. r 331.823 U2535c

Compensation for injuries to employees of the United States arising from accidents occurring between Aug. 1, 1908 and June 30, 1911; report of operations under the act of May 30, 1908. 1913.

United States—Commerce and labor department. r 331.823 U2535co

Compensation to injured government employees; regulations issued by the secretary of commerce and labor governing the operation of the government compensation act for employees injured in the service of the United States. 1912.

United States—Commerce and labor department. r 331.823 U2535

Opinions of the solicitor for the Department of commerce and labor dealing with workmen's compensation under the act of Congress granting to certain employees of the United States the right to receive from it compensation for injuries sustained in the course of their employment, approved May 30, 1908, from Aug. 1908 to Aug. 1912. 1912.

United States—Employers' liability and workmen's compensation commission. r 331.823 U2534

Message of the president of the United States transmitting the report of the commission, together with the hearings held before the commission. 2v. 1912. (62d cong. 2d sess. Senate. Doc. no.338, v.12-13.)

v.1. Message of president and report of commission, with index analysis.

v.2. Hearings and briefs, with table of cases and general index.

United States—Labor statistics bureau. r 331.823 U2536c

Compensation to injured government employees; regulations issued by the secretary of labor governing the operation of the government compensation act for employees injured in the service of the United States; acts of May 30, 1908, March 11, 1912, July 27, 1912. 1915.

United States—Labor statistics bureau. r 331.823 U2536

Workmen's compensation laws of the United States and foreign countries. 1914. (63d cong. 2d sess. Senate. Doc. no.336, v.4.)

United States—Solicitor of the Department of labor. r 331.823 U2537

Opinions of the solicitor for the Department of labor dealing with workmen's compensation under the act of Congress granting to certain employees of the United States the right to receive from it compensation for injuries sustained in the course of their employment, approved May 30, 1908, with the amendments thereto, from August 1908 to April 1915. 1915.

"Text of legislation," p.15-18.

Wisconsin—Industrial commission. r 331.823 W81

Workman's compensation; annual report (1st-3d), July 1, 1911-June 30, 1914. [1912-14.]

r 331.823 W89

[**Workmen's compensation; a collection of pamphlets.**] 1914.

Contents: The progressive cost of workmen's compensation, by P. T. Sherman.—Administration of workmen's compensation benefits under the Michigan law, by C. O. Taylor.—A résumé of the arguments against state insurance.—A criticism of the Ohio law of workmen's compensation insurance [by P. T. Sherman].—Invasion of the insurance field by the state, by P. T. Sherman.—Extracts from letters showing the attitude of organized labor on workmen's compensation laws.—Workmen's compensation and employer's liability insurance in Ohio, by E. W. Davis.—State insurance, by A. I. Vorys.—Workmen's compensation law of the state of Iowa.—Employers' liability and workmen's compensation laws, by J. W. Lord.

Workmen's Compensation Publicity Bureau, qr 331.823 W897
New York.

Digest of workmen's compensation laws in the United States and territories, with annotations [comp. by F. R. Jones], revised to Dec. 1, 1915. 1915.

—Supplement, revised to Nov. 1, 1916. 1916...qr 331.823 W897a2

The same. 1913.....qr 331.823 W897a

Title reads "Digest of workmen's compensation and insurance laws in the United States."

Housing problem

American Academy of Political and Social Science. 331.83 A51

Housing and town planning. 1914.

Being v.51, Jan. 1914, of the "Annals of the American Academy of Political and Social Science."

The same. (In American Academy of Political and Social Science. Annals, v.51.).....r 306 A51 v.51

Papers by experts, presenting different phases of the subject.

Atterbury, Grosvenor. r 331.83 A88

Model towns in America. 1913. (National Housing Association. Publications.)

With this are bound "The effect of a housing law," by A. T. White and "Rural and suburban housing," by E. S. Forbes.

Appeared in "Scribner's magazine," v.52, July 1912.

Bacon, Mrs Albion (Fellows). 331.83 B12

Beauty for ashes. 1914. Dodd.

Contents: The sheltered life.—The shadow.—The clutch of the thorns.—"Beauty for ashes."—The working girls.—The poor and their poverty.—Laying the foundations.—The first campaign.—Defeat.—The homes of Indiana.—Victory.—Looking forward.

Appeared, with the exception of one chapter, in the "Survey," v.31-32, Nov. 1, 1913-Sept. 5, 1914.

Experiences of an Indiana woman in housing reform and work among the poor.

Bureau of Social Research of New England. r 331.83 B89

Report on housing conditions in Springfield, Mass.; prepared for the Housing committee of the Union Relief Association, by Carol Aronovici. [1912.]

Cambridge, Mass. Housing Association. r 331.83 C14

Report (1st); housing conditions in Cambridge. 1913.

- Carnegie Library of Pittsburgh.** r 016.3318 C21
Housing; references to books and magazine articles. 1912. Pittsburgh.
Reprinted from the "Monthly bulletin," Dec. 1911.
- Chicago School of Civics and Philanthropy.** r 016.33183 C43
The housing problem; literature in central Chicago libraries. 1912.
(Bulletin no.16, July 1912.)
- Ferenczi, Emeric.** qr 331.83 F37
The People's hotel in Budapest (6th district). 1912.
- Fretz, Franklin Kline.** r 331.83 F93
The furnished room problem in Philadelphia.
"Bibliography," p.169-171.
Thesis for Ph. D., University of Pennsylvania.
Investigation of the furnished room district of Philadelphia—the evolution of the district and the economic and social conditions of the roomer.
- International Housing Congress (9th), Vienna, 1910.** qr 331.83 I24
Bericht über den neunten Internationalen Wohnungskongress, Wien, 30 Mai bis 3 Juni 1910. 2v. 1911.
v.1. Referate.
v.2. Organisation des kongresses und verhandlungen.
Text in German, French, English and Italian.
- International Housing Congress (10th), The Hague, 1913.** qr 331.83 I24a
Compte rendu. [1913.]
Text in German, French, English and Italian.
With this is bound "Nederlandsche rapporten en hoofdinhoud der buitenlandsche rapporten."
- International Housing Congress (10th), The Hague, 1913.** qr 331.83 I24r
Rapports. 4pts. in 2v. [1913.]
Text in German, French, English and Italian.
- Los Angeles—Housing commission.** r 331.83 L89
Report, July 1, 1910–March 31, 1913. [1913.]
- National Housing Association.** r 331.83 N155
Proceedings of the conference (1st–4th), 1911–15.
Proceedings of the conference (1st) for 1911 will be found in the Proceedings of the New York Academy of Political Science (r 305 N26).
Proceedings for 1912–15 title reads "Housing problems in America."
- New York (city)—Tenement house department.** r 331.83 N2612
Report (5th–8th), 1909–16.
- Oseroff, Abraham.** qr 331.83 O29
Survey of workingmen's homes in the Soho district of Pittsburgh; a study of civic neglect in the heart of a great city.
Thesis for degree of M. A., University of Pittsburgh, 1914.
Type-written copy, with mounted photographs of the district.
- Schoditsch, Lajos, & Eberling, Béla.** qr 331.83 S36
A Budapest székesfővárosi, 6. kerületi népszálló. 1914.

Veiller, Lawrence.

r 331.83 V24

A model housing law. 1914. Survey Associates. (Russell Sage foundation.)

"There are presented in carefully weighed phraseology the essentials of a housing law which reformers and legislators are urged to accept without unnecessary alterations, since the various items have been found by experience to stand the test of judicial interpretation and of comprehensiveness." *American journal of sociology*, 1914.

The provisions of a model law are set forth in six articles: General provisions, Dwellings hereafter erected, Alterations, Maintenance, Improvements, Requirements and remedies. Many diagrams.

Thrift

Kirkpatrick, Edwin Asbury.

331.84 K28

The use of money; how to save and how to spend. 1915. Bobbs. (Childhood and youth series.)

"Bibliography," p.219-220.

Detailed discussion of the financial training of children.

MacGregor, Theodore Douglas.

331.84 M16

Book of thrift; why and how to save and what to do with your savings; a book of inspiration and practical help. 1915. Funk.

"Consists mainly of a series of 'talks on thrift' prepared by the author for the Savings Bank Section of the American Bankers' Association. Terse advice, illustrative stories, and quotations, which should be of practical help and inspiration to persons on small salaries, housewives, parents who would teach their children to save, and to all small investors." *A. L. A. booklist*, 1915.

Clubs. Social settlements. Playgrounds

Bernheimer, Charles Seligman, & Cohen, J. M.

331.85 B45

Boys' clubs. 1914. Baker.

Constitutions, by-laws, minutes, financial and other reports, topics and programs.

"Especially suggestive of the part a club leader may play through use of authority, fellowship, and personality." *Survey*, 1914.

Boston, South End House Association.

r 331.85 B644

South End house [report for] its 21st-25th year, 1912-16. 1913-17.

Chapell, Harriet.

331.85 C36

The church vacation school; a discussion of its principles, with practical suggestion for its foundation and administration. 1915. Revell.

"List of works quoted or recommended," p.157-160.

Outlines the activities of a recreation school conducted for idle or neglected children during the summer vacation. Program includes music, calisthenics, Bible stories, games and handicrafts. The movement was begun in 1901 by the Reverend Robert G. Boville, who established typical schools in five Baptist churches in New York.

Hull-house, Chicago.

qr 331.85 H91

Year book, 1913.

McCormick, William.

331.85 M14

The boy and his clubs, with a foreword by Thomas Chew. 1912. Revell.

Practical little book of suggestion concerning boys' clubs in connection with the church.

National Federation of Settlements.

r 331.85 N15

[Report of] conference (3d), 1913, held in Pittsburgh.

Discussion of problems of settlement work by well-known specialists.

Picht, Werner Robert Valentin.

331.85 P54

Toynbee hall and the English settlement movement; revised edition tr. from the German by L. A. Cowell. 1914. Bell.

"Bibliography," p.9-12.

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r 331.85 P6932

Annual report (1st-9th) [1904-13]. 1905-13. [Pittsburgh.]

Organized Nov. 1904 as Joint Committee of Women's Clubs for Allegheny Playgrounds and Vacation Schools. In Sept. 1907 name was changed to Playground and Vacation School Association of Allegheny.

First report covers period, Nov. 1904-05.

Wald, Lillian D.

331.85 W15

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Appeared in a condensed form in "Atlantic monthly," v.115-116, March-Aug. 1915.

"History of...[the Henry Street Settlement by its founder]...also...a study of the east side itself—of its teeming immigrant population, of its development, of its most crying needs, and of its national promise...Full of poignant human sketches, stories of mothers and their children, of neighbors, of funny and interesting and pathetic boys and girls." *New York times*, 1915.

Woods Run Settlement Association, Pittsburgh.

r 331.85 W866

Annual report of the Woods Run Settlement Association, formerly the Woods Run Industrial House Association, Petrel St., N. S., Pittsburgh, 1911/12-1912/13. [1912-13. Pittsburgh.]

Employment agencies

Devine, Edward Thomas.

331.86 D49

Report on the desirability of establishing an employment bureau in the city of New York. 1909. Charities Publication Committee. (Russell Sage foundation.)

"Partial bibliography," p.232-238.

Illinois—Labor statistics bureau.

r 331.86 I22

Annual report (2d-17th) of the Illinois free employment offices, 1899/1900-1914/15. 1901-[16].

Annual report (2d-8th), 1899/1900-1905/06, will be found in "Annual coal report;" (19th-25th), 1899/1900-1905/06 issued by the Illinois state mining board (r 331 I22).

Massachusetts—Labor statistics bureau.

r 331.86 M45

Free employment offices in the United States and foreign countries. 1904.

The same. (In Massachusetts—Statistics bureau. Annual report, v.34, p.131-214.).....r 331 M456 v.34

Massachusetts—Statistics bureau.

r 331.86 M45an

Annual report (2d-6th, 8th-9th) on the state free employment offices, for the year ending Nov. 30, 1908-12, 1914-15. 1909-16.

In 1909 name was changed from Labor statistics bureau to Statistics bureau.

National Employment Exchange.

r 331.86 N15

Annual report (1st-3d) for the year ending Sept. 30th, 1910-12.

1st report covers period from date of incorporation, April 15, 1909, to close of fiscal year, Sept. 30, 1910.

Sutherland, Edwin Hardin.

r 331.86 S96

Unemployed and public employment agencies. 1914. [Cameron.]

"Bibliography," p.172-175.

Thesis for Ph. D., University of Chicago.

Vacation War Relief Committee.

r 331.86 V11

Annual report (1st), 1915, of Vacation War Relief Committee. [1915.]

This committee grew out of the Vacation Association work which was undertaken by the Woman's department of the National Civic Federation.

Organized labor. Syndicalism

Brissenden, Paul Frederick.

q 331.87 B75

The launching of the Industrial Workers of the World. 1913.

(California University. Publications; economics, v.4, no.1.)

"List of books, pamphlets and magazine articles on the I. W. W., syndicalism, socialism and anarchism," p.54-82.

The same. 1913.....qr 331.87 B75

Short account of the constructive work of the first convention of the I. W. W., which was founded in Chicago in 1905.

Brooks, John Graham.

331.87 B77

American syndicalism; the I. W. W. [Industrial Workers of the World]. 1913. Macmillan.

"Literature," p.253-256.

"Highly interesting, sound and sane, yet sympathetic exposition of syndicalism in the United States, with a survey of the general socialistic movement and of the European origins of syndicalism." *A. L. A. booklist*, 1913.

Carlton, Frank Tracy.

331.87 C21

History and problems of organized labor. 1911. Heath.

"References for further reading" at the end of each chapter.

Useful summary in compact and readable form of a large amount of literature dealing with many important labor questions. Four chapters undertake to present the history of labor organizations, but in the United States only. A separate chapter is devoted to each of the following subjects: immigration, the sweated industries, child labor, woman labor, protective legislation for employees, industrial remuneration and trade education. While these may be called labor problems they are not problems peculiar to organized labor, hence the title is somewhat misleading. *Condensed from Nation*, 1911.

Clay, Sir Arthur Temple Felix.

331.87 C54

Syndicalism and labour; notes upon some aspects of social and industrial questions of the day. 1911. Murray.

Traces the origin and history of a continental movement which has attained popularity as a powerful weapon for labor and which has an important bearing on the future of trade unionism. The object of syndicalism is the general strike and it has been adopted as the particular policy of the *Confédération Générale du Travail*.

Estey, James Arthur.

331.87 E85

Revolutionary syndicalism; an exposition and a criticism, with an introduction by L. L. Price. 1913. King.

"Bibliography," p.208-209.

Study of syndicalism in France. Both Mr Price and Dr Estey believe that the movement has been of service to the cause of labor but that it will not ultimately succeed. A work of laborious research and considerable power of expression, which, however, emanates from one who has only an outside view of the matter on which he writes. *Condensed from Athenaeum*, 1914.

Levine, Louis. 331.87 L66

Labor movement in France; a study in revolutionary syndicalism, with an introduction by F.H. Giddings. 1912. (Columbia University, New York. Studies in history, economics and public law, v.46, no.3.)

"Bibliography," p.208-212.

The same. 1912. (In Columbia University, New York. Studies in history, economics and public law, v.46, no.3.).....r 330 C72 v.46

"His pages tell us in a clear and dispassionate way what revolutionary syndicalism is, how it began and how it has grown, what its informing ideas and purposes are, and by what methods it is forcing itself upon the serious attention of the civilized world." *F. H. Giddings, in introduction.*

Pouget, Émile. 331.87 P86

Sabotage; tr. from the French, with an introduction by A. M. Giovannitti. 1913. Kerr.

Contents: Introduction.—Origin of sabotage.—The labor market.—The rich man's morals and the poor man's vices.—To pierce the golden cuirass.—The various methods of sabotage.—Proletarian sabotage and capitalistic sabotage.

"Socialist books," p.3-22, additional paging at end of the book.

Explanation of the actual meaning of sabotage as understood by its advocates, and a justification of its use to gain industrial ends. Author and translator do not altogether agree on the nature and extent of sabotage. Mr Pouget is in favor of the destruction of property, while Mr Giovannitti would exclude all violence. "However, in their ardor and their method of defense they are entirely in accord."

Spargo, John. 331.87 S73

Syndicalism, industrial unionism and socialism. 1913. Huebsch.

Contents: What is syndicalism?—The philosophy of syndicalism.—Syndicalism and the general strike.—Sabotage as a revolutionary weapon.—Relation of syndicalism to socialism.

"Bibliographical notes," p.234-243.

Discussion of the more important phases of the movement from the point of view of a Marxian socialist. Mr Spargo is not a believer in syndicalism, but is fair and unpartisan in stating its principles.

Trade unions

American Federation of Labor. r 331.88 A51r

Report of the proceedings of the annual convention (8th-9th, 12th-13th, 15th, 17th-18th, 20th, 24th, 29th), 1888-89, 1892-93, 1895, 1897-98, 1900, 1904, 1909. 1889-1909.

American Federation of Labor. r 331.88 A51u

Union label laws; comprising in full or in substance the statutes, state and Federal registration, digest of court decisions, imitations, civil and criminal remedies, search warrants and applications of the several states and territories; comp. by Eugene Clifford. 1911.

Bullock, Edna Dean, comp. 331.88 B87

Selected articles on trade unions. 1913. Wilson. (Debaters' handbook series.)

"Bibliography," p.11-27.

The same......r 331.88 B87

Cole, George Douglas Howard. 331.88 C68

The world of labour; a discussion of the present and future of trade unionism. 1913. Bell.

"Bibliography," p.427-435.

Exhaustive treatise full of information, though the standpoint is that of the scholar who studies the problem from without. He treats quite fully of the labor movement in

Cole, George Douglas Howard—*continued*. 331.88 C68
the United States, in France, and in other European countries and indicates the lines along which he believes trade unionism will develop.

Grant, Luke. r 331.88 G78

National Erectors' Association and the International Association of Bridge and Structural Ironworkers. 1915.

Issued by the United States commission on industrial relations.

Henry, Alice. 331.88 H45

The trade union woman. 1915. Appleton.

Contents: Early trade unions among women.—Women in the Knights of Labor.—The beginnings of modern organization.—The Women's Trade Union League.—The huge strikes.—The immigrant woman and organization.—The woman organizer.—The trade union in other fields.—Women and the vocations.—Woman and vocational training.—The working woman and marriage.—The working woman and the vote.—Trade-union ideals and policies.—Appendix 1-2.

"Bibliography," p.297-303.

Iowa University. r 331.88 I25

[Resolved: "That the movement of organized labor for the closed shop should receive the support of public opinion"]; speeches of the representatives of Iowa against Minnesota [and] Wisconsin. 1911. Forensic League. (Inter-collegiate debates, 1910-11.)

"References," p.41-44.

Marot, Helen. 331.88 M39

American labor unions; by a member. 1914. Holt.

"Reference notes of citations," p.266-269.

Upholds the policies and methods of the American Federation of Labor and other associations. Contains a chapter on the organization of women and a directory of unions connected with the American Federation of Labor and with the Industrial Workers of the World.

National Women's Trade Union League of America. qr 331.88 N155

Proceedings, biennial convention (2d-5th), 1909-15.

With this is bound its "Handbook" of the second convention, 1909.

Robbins, Edwin Clyde, comp. 331.88 R53

Selected articles on the open versus closed shop. 1911. Wilson. (Debaters' handbook series.)

"Bibliography," p.13-20.

The same.....r 331.88 R53

Saliers, Earl Adolphus. r 331.88 S16

The coal miner; a study of his struggle to secure regulated wages in the Hocking valley. 1912. Bethlehem Printing Co.

Thesis for Ph. D., University of Pennsylvania.

Suffern, Arthur Elliott. 331.88 S94

Conciliation and arbitration in the coal industry of America. 1915. Houghton. (Hart, Schaffner & Marx prize essays in economics.)

Contents: The introduction and extension of conciliation in the bituminous field.—The West Virginia problem.—The United Mine Workers of America.—The coal operators' associations.—The interstate joint conference.—The state conference.—Conciliation and arbitration in the anthracite field.—Conciliation and arbitration in the British coal industry.—Outlook for the future.—Appendix, statistical tables.

"Bibliography," p.369-371.

Strikes

Berle, Adolph Augustus.

r 331.89 B45

The Colorado mine war. [1914.]

Reprinted from "Bibliotheca sacra," Oct. 1914.

Written after a brief visit to the scene of the Colorado coal strike of 1913 and giving Dr Berle's conclusions concerning its causes. He sees in the conflict an issue of momentous consequence in the future of the nation, and believes that unless it is wisely settled, civil law and order will be increasingly threatened by the growing tyranny of labor organizations.

Burns, William John.

331.89 B94

The masked war; the story of a peril that threatened the United States, by the man who uncovered the dynamite conspirators and sent them to jail. 1913. Dorab.

Mr Burns, the detective, gives a detailed account of the capture of the McNamara brothers, their trial and conviction.

Cleveland, Grover.

331.89 C58

The government in the Chicago strike of 1894. 1913. Princeton University Press. (Stafford Little lectures.)

The same. 1904. Century. (In his Presidential problems, p.79-117.)304 C58

Address delivered at Princeton University, 1904.

r 331.89 F12

Facts concerning the struggle in Colorado for industrial freedom; issued by the coal mine managers. 1914.

Bulletin no.1-15, issued June 22-Sept. 4, 1914 by the coal mine managers, is included in this pamphlet.

Sorel, Georges.

331.89 S71

Reflections on violence; authorized translation by T. E. Hulme. [1914.] Huebsch.

Author is the father of syndicalism, and professes to be the only true-blue Marxian socialist to-day.

"The best thing to do with Sorel's book is to read it for its criticisms upon Socialists of a stripe, or stripes, other than his own. He throws a great deal of light upon them, their methods, and their habits of thought. It ought to be, on the whole, a comforting book for those who have at one time or another feared that Marxian Socialism might really 'arrive.'" *Nation*, 1915.

United States—Labor bureau.

r 331.89 U2534r

Report on strike of textile workers in Lawrence, Mass. in 1912; prepared under the direction of C. P. Neill. 1912. (62d cong. 2d sess. Senate. Doc. no.870, v.31.)

United States—Labor bureau.

r 331.89 U2534rw

Report on the miners' strike in bituminous coal field in Westmoreland county, Pa. in 1910-11; prepared under the direction of C. P. Neill. 1912. (62d cong. 2d sess. House. Doc. no.847, v.97.)

Binder's title reads "Miners' strike in Westmoreland county, Pa., 1910-11."

United States—Labor department.

r 331.89 U2536

Strike in the copper mining district of Michigan; letter from the secretary of labor transmitting in response to a Senate resolution of Jan. 29, 1914 a report in regard to the strike of mine workers in the Michigan copper district which began on July 23, 1913. 1914. (63d cong. 2d sess. Senate. Doc. no.381, v.8.)

United States—Library of Congress. qr 016 U25b v.3

Select list of references on boycotts and injunctions in labor disputes; comp. under the direction of H. H. B. Meyer. 1911.

Bound with other bibliographies issued by the Library of Congress.

United States—Rules, Committee on. (House.) r 331.89 U2535

The strike at Lawrence, Mass.; hearings before the Committee on rules of the House of representatives on House resolutions 409 and 433. March*2-7, 1912. 1912. (62d cong. 2d sess. House. Doc. no.671, v.138.)

West, George P. r 331.89 W56

Report on the Colorado strike, by G. P. West. 1915.

Issued by the United States commission on industrial relations.

Banks and money

[**Aldrich** currency plan; a collection of pamphlets. 1911.] r 332 A365

Contents: The Aldrich plan for a revision of the monetary system and the mobilization of commercial credits, by Arthur Reynolds.—The Aldrich currency plan interpreted.—The new Aldrich currency system.

American Bankers' Association. qr 332 A512

Journal, including Bulletin of the American Institute of Banking [monthly], July 1910–date. v.3–date. 1910–date.

American Institute of Banking. qr 332 A51

Bulletin [monthly], June 1904–June 1910. v.4–13. 1904–10.

The same, July 1910–date. 1910–date. (In American Bankers' Association. Journal, July 1910–date. v.3–date.).....qr 332 A512

Prior to June 1907 the name of this society was American Institute of Bank Clerks. v.4–5 issued semimonthly.

r 332 B2272

[**Banks** and banking; a collection of pamphlets on banking reform. 1907–11.]

Contents: Banking and currency reform, by Franklin MacVeagh.—Principles and methods of banking reform; distributed by the National Citizens' League.—Banking reform and the National Reserve Association, by J. L. Laughlin.—Recent addresses on banking reform, by President Taft.—Principles and methods of banking reform; distributed by the National Citizens' League.—Banking control, by J. L. Laughlin.—Banking reform as seen by the commercial interests, by A. C. Bartlett.—The National Reserve Association; advantages it will give the smaller banks and their communities; distributed by the American Bankers' Association.—Some aids to the solution of our financial problem; The unsettled currency problem, by Arthur Reynolds.—The need of banking and currency reform, by F. B. Anderson.—Address of C. N. Fowler on the financial situation before the Illinois Manufacturers' Association at Chicago, Dec. 10, 1907.

Brandeis, Louis Dembitz. 332 B69

Other people's money and how the bankers use it. 1914. Stokes.

Appeared in "Harper's weekly," v.58, Aug. 16, 1913–Dec. 17, 1914.

An able diagnosis of the so-called money trust by the well-known lawyer and student of economics. Shows the evils of financial concentration in the United States, the means that have brought it about, and the remedies that may be applied. He comments especially upon the failure of the banker-management of the New Haven railroad, whose methods he was instrumental in exposing.

Conway, Thomas, & Patterson, E. M.

332 C76

Operation of the new bank act. 1914. Lippincott.

Contains also the text of the "Federal reserve act," approved Dec. 23, 1913.

Analysis of the new law (1913) intended for the general reader, but suggestive also to the banker and the student of economics. Its statements are generally accurate and temperate. Deals topically, though not exhaustively, with the different problems arising under each section. Bears evidence of careful compilation of the documents and discussions which marked the progress of the bill through Congress. *Condensed from Nation, 1914.*

Fisher, Irving.

332 F53

Purchasing power of money; its determination and relation to credit, interest and crises [written with the assistance of] H. G. Brown. 1911. Macmillan.

Aims to set forth the principles that determine the purchasing power of money, and to defend the thesis that the purchasing power is directly proportional to the quantity.

"He has taken the most hotly debated of all economic questions, and, by the use of arguments long familiar to special students, has produced an imposing work." *Nation, 1911.*

Holdsworth, John Thom.

332 H71

Money and banking. 1914. Appleton.

The same. 1915.....r 332 H71

"Reading references" at the end of each chapter.

Contains also the "Federal reserve act."

"Designed primarily to serve as a textbook for students beginning the study of money and banking in colleges and universities...and for the young business men who...are pursuing studies in this field." *Preface.*

Hull, George H.

332 H914

Industrial depressions; their causes analysed and classified, with a practical remedy for such as result from industrial derangements; or, Iron the barometer of trade. 1911. Stokes.

Study of modern industrial crises. Author advocates a system whereby the government may collect and publish "information in relation to the existing volume of construction under contract, and...the capacity of the country to produce construction materials to meet the demand thus indicated."

Moulton, Harold Glenn.

332 M94

Principles of money and banking; a series of selected materials, with explanatory introductions. 1916. University of Chicago Press.

Contents: The pecuniary organization of society.—The origin and development of money.—Early expedients for increasing the currency.—The standard question; bimetalism.—The standard question; government paper money.—The standard question; the silver movement in the United States.—The standard question; the control of price levels.—The existing system of the United States and principles of regulation.—The various forms and services of banking.—The nature and functions of credit.—Instruments of commercial credit.—Principles of "commercial" banking.—Relations between banks.—The regulation of banking.—The Federal reserve system.—Co-operative banking agencies.—Agricultural credit.—Investment banking institutions.—The interrelations of financial operations.

The same.....r 332 M94

Pan American Financial Conference (1st), Washington, D. C. 1915.

r 332 P21

Proceedings of the conference, May 24 to 29, 1915. 1915. U. S. Government.

The conference was called by President Wilson with a view to establishing closer and more satisfactory financial relations between Central and South America and the United States.

Phillips, Chester Arthur, comp.

332 P51

Readings in money and banking; selected and adapted. 1916. Macmillan.

United States—Banking and currency committee.

r 332 U2536

(Senate.)

Banking and currency; hearings before the committee, on H. R. 7837 (S. 2639), a bill to provide for the establishment of Federal reserve banks, for furnishing an elastic currency, affording means of rediscounting commercial paper, and to establish a more effective supervision of banking in the United States, and for other purposes. 3v. 1913. (63d cong. 1st sess. Senate. Doc. no.232, v.15-17.)

United States—Committee to investigate the concentration of control of money and credit. (House.)

r 332 U2534

Report of the committee appointed pursuant to House resolutions 429 and 504 to investigate the concentration of control of money and credit. 1913.

The investigation of the "money trust" by the Pujo committee, including the evidence obtained at the hearings and the recommendations of the committee to Congress.

United States—Conference committees, 1913-14.

qr 332 U2539

Report of the Committee of conference of the two houses of Congress on the bill H. R. 7837, to provide for the establishment of Federal reserve banks, to furnish an elastic currency, to afford means of rediscounting commercial paper, to establish a more effective supervision of banking in the United States, and for other purposes; presented by Mr Glass, Dec. 22, 1913. 1913. (63d cong. 2d sess. House. Report, no.163, v.4.)

United States—Federal reserve board.

r 332 U2538

Annual report (1st-date), Aug. 1914-date. 1915-date.

United States—Federal reserve board.

qr 332 U2538f

Federal reserve bulletin, May 1915-date. v.1-date. 1915-date.

United States—Federal reserve board.

r 332 U2538i

Index-digest of the Federal reserve act and amendments; the act of Dec. 23, 1913, the act of Aug. 4, 1914, the act of Aug. 15, 1914, the act of March 3, 1915. 1915.

United States—National monetary commission.

r 332 U2533

National monetary commission; letter from secretary of the National monetary commission, transmitting pursuant to law, the report of the commission. 1912. (62d cong. 2d sess. Senate. Doc. no.243.)

United States—Reserve bank organization committee.

r 332 U2535

Decision of the Reserve bank organization committee determining the Federal reserve districts and the location of Federal reserve banks under Federal reserve act approved Dec. 23, 1913, April 2, 1914, with statement of the committee in relation thereto, April 10, 1914. 1914.

United States—Reserve bank organization committee. qr 332 U25351

Location of reserve districts in the United States; letter from the Reserve bank organization committee, transmitting the briefs and arguments presented to the Organization committee of the Federal reserve board, relative to the location of reserve districts in the United States. 1914. (63d cong. 2d sess. Senate. Doc. no.485, v.16.)

United States—Senate.

qr 332 U2537

Banking and currency bill, also comparative print showing the changes suggested by the amendment submitted to the Senate by Mr Owen, also the changes suggested by the amendments intended to be proposed by Mr Hitchcock to H. R. 7837; an act to provide for the establishment of Federal reserve banks, to furnish an elastic currency, to afford means of rediscounting commercial paper, to establish a more effective supervision of banking in the United States and for other purposes. 1913. (63d cong. 1st sess. Senate. Doc. no.242, v.19.)

United States. Statutes.

r 332 U25392

Federal reserve act, the National-bank act and all other Federal laws relating to banking, with complete indexes and references. [1915?]

Issued by the National City Bank of New York.

United States—Treasury department.

r 332 U2532

Information respecting United States bonds, paper currency, coin, production of precious metals, etc., rev. July 1, 1915. 1915.

White, Horace.

332 W63a

Money and banking, illustrated by American history; revised and continued to the year 1914. 1914. Ginn.

"Reviews the various developments of paper and silver currency, and gives the experience of Europe with the gold standard. Explains what a bank does, describes the successive phases of American banking, and forecasts its probable future. Among the appendices are 'The Baltimore Plan,' 'Secretary Carlisle's Plan,' and 'Recent Bimetallist Movements in Germany.' Mr. White is an uncompromising upholder of the gold standard, and an able critic of American currency and banking systems. He is editor of the *New York Evening Post*, and an acknowledged authority in finance." *George Hles.*

Banks and banking

qr 332.1 B2276

Bankers' directory and list of attorneys; the original "Bankers' blue book" (39th year), July 1911. 1911. Rand.

qr 332.1 B2277

Bankers encyclopedia, "Purple book," 1911, 1914-15. Ed.33, 40-42. 1911-15. Stumpf.

Maps—Ontario. (1915.)

qr 332.1 M2

Map showing branches of chartered banks in Ontario and Quebec; prepared in the Railway lands branch under the direction of F. C. C. Lynch. 1915.

Size, 19½ x 31 3-16 inches, folded in 4° cover; scale, 25 miles to 1 inch.

Contains inset maps of northern Ontario and Gaspé peninsula.

———Chart showing branches of chartered banks and post office savings banks in Ontario and Quebec, to accompany bank map. 1915.

Bound with map.

- r 332.1 M87
- Moorhead's** financial register; directory of banks, bank directors, bank officials in the Pittsburgh district, 1912. 1912. Moorhead. Pittsburgh.
Ed. by C. F. Pugh.
- Pennsylvania**—Auditor general's office. r 332.1 P3992
Reports of the several banks and savings institutions, 1877. 1878.
For other volumes see preceding catalogue, v.1.
Continued, 1892—date, by the "Annual report" of the Banking department (r 332.1 P399).
- Riesser, Jacob.** r 332.1 R44
The German great banks and their concentration in connection with the economic development of Germany. 1911. (United States. 61st cong. 2d sess. Senate. Doc. no.593, v.43.)
Issued by the United States national monetary commission.
- Rosenberger, Jesse Leonard.** r 332.1 R72
Bank officers; a handbook of practical information on bank cashiers, presidents, directors, etc., extracted from decisions of the courts, especially those of recent years down to date [1914]. 1914. Privately printed.

National banks

- Brown, William Horace.** 332.11 B79
Story of a bank; an account of the fortunes and misfortunes of the Second Bank of the United States, with a preliminary sketch of the first bank, including an introduction by G. E. Roberts. 1912. Badger.
- Esarey, Logan.** r 332.11 E79
State banking in Indiana, 1814-73. 1912. (Indiana University studies, no.15.)
"Bibliography," p.303-305.
Useful contribution to the financial history of Indiana.
- National City Bank of New York.** r 332.11 N15
National banks of the United States; their organization, management and supervision, 1812-1910. 1910.
Revised edition of its "National bank organization."
- Philippovich von Philippsberg, Eugen.** r 332.11 P49
History of the Bank of England and its financial services to the state; tr. by Christabel Meredith, with an introduction by H. S. Foxwell. 1911. (United States. 61st cong. 2d sess. Senate. Doc. no.591, v.41.)
- United States**—Comptroller of the currency, Office of. r 332.11 U25d
Digest of national bank decisions, 1908, 1912, 1914. 1908-14.
For volume for 1905 see preceding catalogue, v.4.
Issued by the United States national monetary commission.
- United States. Statutes.** r 332.11 U25n2
National-bank act as amended, and other laws relating to national banks; comp. under the direction of the comptroller of the currency, 1915. 1915.
Contains the Federal reserve act.
For earlier editions see preceding catalogue, v.6.

State banks. Postal savings banks

Barnett, George Ernest.

r 332.12 B25

State banks and trust companies since the passage of the national bank act. 1911. (United States. 61st cong. 3d sess. Senate. Doc. no.659, v.2.)

Issued by the United States national monetary commission.

United States—National monetary commission.

r 332.22 U253

Notes on the postal savings-bank systems of the leading countries. 1910. (61st cong. 3d sess. Senate. Doc. no.658, v.1.)

National Federation of Remedial Loan Associations.

r 332.3 N15

Bulletin, July 1912, Aug. 1913, Dec. 1914, July 1915. v.1, no.1; v.2, no.1. 1912-15.

Contains Proceedings of the annual convention, 1912-15.

Coins and coinage

Gill, Thomas, comp.

r 332.49 G39

Brief sketch of the coinage and paper currency of South Australia, with facsimile illustrations of the first currency notes and other interesting documents. 1912. Vardon.

"Bibliography," p.95-96.

United States—Assay commission.

r 332.46 U253

Proceedings, 1899-1900, 1905, 1907-date, and test of coinage executed and reserved during the year, 1898-99, 1904, 1906-date, also laws of the United States relating to the annual assay and rules for the organization and government of the board of assay commissioners. 1899-date.

Report will also be found in the Annual report of the United States mint bureau (r 332.46 U25).

United States—Library of Congress.

qr 016 U25b v.5

Select list of references on the monetary question; comp. by H. H. B. Meyer and W. A. Slade. 1913.

Bound with other bibliographies issued by the Library of Congress.

United States—Mint bureau.

r 332.4 U25

Monetary systems of the principal countries of the world. 1912. (Treasury department doc, no.2636.)

Paper money

Mitchell, Wesley Clair.

qr 332.5 M74

Gold, prices and wages under the greenback standard. 1908. University of California Press. (California University. Publications; economics, v.1.)

United States—State department.

r 332.5 U25b

Bills of exchange; message from the president transmitting a communication from the secretary of state relating to and accompanied by a report from the American delegation to the International Congress on Bills of Exchange held at The Hague in the summer of 1912. 1913. (63d cong. 1st sess. Senate. Doc. no.162, v.11.)

United States—State department.

r 332.5 U25

International Conference on Bills of Exchange; message from the president transmitting a letter from the secretary of state inclosing a report of the delegate to the International Conference on Bills of Exchange held at The Hague, June 23 to July 25, 1910. 1911. (61st cong. 3d sess. Senate. Doc. no.768, v.57.)

Stocks and bonds

Bond, Frederic Drew.

332.6 B62

Stock prices; factors in their rise and fall, illustrated with charts. 1911. Moody's Magazine Book Dept. ("The investor's library.")

Chamberlain, Lawrence.

332.6 C35

Principles of bond investment. 1911. Holt.

Contents: The channels of investment.—Civil loans.—Corporation loans.—The mathematics and movement of bond prices.—Appendix: The gamble in "governments" by national banks, by W. H. Lyon.

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Chamberlain, Lawrence.

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Weld, Louis Dwight Harvell. 338.1 W47

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"Bibliography," p.467-476.

Author is (1916) professor of business administration in Sheffield scientific school, Yale University, and was formerly chief of Division of agricultural economics, University of Minnesota. He explains the general organization and methods of marketing, beginning with marketing at country points, and describes the methods and functions of wholesale dealers. He considers the factors affecting the cost of marketing, also a number of special problems, such as price quotations, transportation, future trading, inspection and grading, public markets and coöperative markets.

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Durand, Edward Dana.

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"Amplification of a notable series of lectures delivered at Harvard, giving a penetrating analysis of the question, and discussing the pertinent legislation of 1914. Author is Professor of Statistics in the University of Minnesota." *Brooklyn Public Library bulletin*, 1915.

Haney, Lewis Henry.

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"Select list of references," p.478-479.

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Jones, Eliot.

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Lyon, Walter Hastings.

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Capitalization; a book on corporation finance. 1912. Houghton.

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Meade, Edward Sherwood.

338.8 M55c2

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National Civic Federation.

r 338.8 N15

The trust problem; replies of 16,000 representative Americans to a questionnaire sent out by Department on regulation of industrial corporations of the National Civic Federation. 1912. [Brown Printing & Binding Co.]

Nearing, Scott.

338.8 N18

Anthracite; an instance of natural resource monopoly. 1915. Winston.

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Mr Carnegie's testimony before United States commission on industrial relations, Feb. 5th, 1915. [1915.]

Reprint from "New York herald," Feb. 6th, 1915.

Ripley, William Zebina, ed.

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An attempt to apply the case system to the study of economics, and also show the historical development of the so-called trust problem in the United States. Each chapter is devoted to a specific industry or a special phase of trust legislation. The edition of 1916 contains the texts of the Sherman act, the Trade commission law, and the Clayton act.

Stevens, William Harrison Spring, ed.

338.8 S84

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Stevens, William Harrison Spring.

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338.8 T13

The anti-trust act and the Supreme court. 1914. Harper.

Discussion of the Sherman law and the proposed amendments to it. His purpose is "to set forth in a summary way the present legal status of trusts and combinations in this country...[and make] clear the law against trusts and monopolies as it grew up under the common law, as it was changed by statute, as it has been enforced by the courts, and as it is to-day." *Chapter 1.*

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r 338.8 U2532i

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pt.4. Conditions in production and wholesale distribution including wholesale prices.

United States—Corporations bureau.

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For pt.1-2 see preceding catalogue, v.6.

United States—Justice department.

qr 338.8 U2533b

Bills and debates in Congress relating to trusts, 50th congress to 57th congress inclusive. 1903. (57th cong. 2d sess. Senate. Doc. no.147, v.14.)

United States—Justice department.

r 338.8 U2533a

Federal anti-trust decisions; cases decided in United States courts arising under, involving or growing out of the enforcement of the Anti-trust act of July 2, 1890 (26 stat., 209), including a few somewhat similar decisions not based upon that act, 1890-1912; comp. by J. A. Finch. 4v. 1912. (62d cong. 1st sess. Senate. Doc. no.111, v.22-25.)

United States—President. (William Howard Taft.)

r 338.8 U2535

Message, Dec. 5, 1911, on the anti-trust statute. 1911.

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r 338.8 U2538

Sherman antitrust law, with amendments and list of cases instituted by the United States under the Sherman law and citations of cases decided hereunder or relating thereto, July 1, 1912. 1912.

Van Hise, Charles Richard.

338.8 V17

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"Attempts a solution of the trust problem based on the assumption that concentration of capital serves a useful purpose. The statement of the problem (Chapters 1-4, 224 p.) assembles a large body of data regarding concentration and cooperation, with important illustrations, which have decided value for students' reference. A very timely and useful book, though by its nature of an ephemeral character." *A. L. A. booklist*, 1912.

Williams, Nathan Boone, comp.

r 338.8 W74

Laws on trusts and monopolies, domestic and foreign, with authorities. 1914.

Compiled for the use of the Committee on the judiciary, House of representatives, 63d congress.

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Cotter, Arundel.

338.8 C83

Authentic history of the United States Steel Corporation. 1916.

Moody Magazine and Book Co.

Author's aim is to narrate the principal events leading up to the incorporation of the company, to tell its objects and its policies and the results therefrom on labor, the corporation itself and industry generally. He admits a prejudice in favor of the company whose organization, he believes, marked the dawn of a new and better era in industrial history. Contains a chapter on Gary, and other steel towns.

Dow, Jones & Co. New York, comp.

r 338.8 D76

A decade in United States steel. 1911. Wall Street Journal.

The object of this booklet is to give to the shareholders of the United States Steel Corporation as well as to investors an insight into its general operations and a report of its earnings and expenses from 1901 to 1911.

United States—Corporations bureau.

r 338.8 U2532re

Report on the steel industry. pt.1-3, in 2v. 1911-13.

pt.1. Organization, investment, profits and position of United States Steel Corporation.

pt.2. Cost of production; preliminary report.

pt.3. Cost of production; full report.

The same. pt.1-2. 1912. (In United States—Investigation of United States Steel Corporation, Committee on. (House.) Hearings, v.8.).....**r 338.8 U25392 v.8**

United States—Investigation of United States Steel

r 338.8 U25392

Corporation, Committee on. (House.)

Hearings. 8v. 1912.

v.1-7. Hearings, no.1-63.

v.8. Appendix.—General index and House report no.1127.

Chairman of this committee was A. O. Stanley.

The following documents are incorporated as a part of the Hearings: Summary of report of the commissioner of corporations on the steel industry, pt.1, in v.1.—Absorption of the Tennessee Coal & Iron Co.; views of Culberson, Kittredge [and others] of the Senate committee on the judiciary, together with the hearings, in v.2.—Report of F. J. MacRae to chairman of Special committee to investigate violations of the antitrust act of 1890 and other acts, in v.5-6.—Report of the commissioner of corporations on the steel industry, pt.1-2, in v.8.—Investigation of United States Steel Corporation; report [of Special committee to investigate violations of the antitrust act of 1890 and other acts], in v.8.

United States—Special committee to investigate violations **r 338.8 U2539**
of antitrust act of 1890 and other acts. (House.)

Investigation of United States Steel Corporation; report. 1912. (62d cong. 2d sess. House. Report no.1127.)

The same. 1912. (In United States—Investigation of United States Steel Corporation, Committee on. (House.) Hearings, v.8.).....**r 338.8 U25392 v.8**

United States Steel Corporation.

r 338.8 U2534s

Proceedings at annual meeting of the stockholders held April 20, 1914. [1914.]

Bound with its "Statement as to wages, hours and other conditions of labor."

United States Steel Corporation.

r 338.8 U2534s

Statement as to wages, hours and other conditions of labor among employees of the United States Steel Corporation and subsidiary companies.

With this is bound "Proceedings at annual meeting of the stockholders of the United States Steel Corporation held April 20, 1914."

Standard Oil Company**United States, appellee.**

r 338.8 U2537

Transcript of record; Standard Oil Company et al., appellants, vs. United States. 2v.

Supreme court of the United States, Oct. term, 1909, no.725, filed Jan. 3, 1910 (21,951); appeal from the Circuit court of the United States for the Eastern district of Missouri.

v.1. Petitioner's exhibit.

v.2. Pleadings, orders, opinions, etc.

United States, petitioner.

r 338.8 U2536

United States of America, petitioner, v. Standard Oil Company of New Jersey et al., defendants. 2iv. 1908-09.

In the Circuit court of the United States for the eastern division of the Eastern judicial district of Missouri.

v.1-6. Petitioner's testimony.

v.7-10. Petitioner's exhibits.

v.11-17. Defendants' testimony.

v.18-19. Defendants' exhibits.

v.20. Petitioner's testimony, rebuttal.

v.21. Petitioner's exhibits, 855-1044, inclusive, with general index of petitioner's exhibits.

United States, petitioner.

r 338.8 U2536u

United States of America, petitioner, v. Standard Oil Company of New Jersey et al., defendants; brief of facts and argument for petitioner. 2v.

In the Circuit court of the United States for the eastern division of the Eastern judicial district of Missouri.

United States, petitioner.

r 338.8 U2536un

United States of America, petitioner, v. Standard Oil Company of New Jersey et al., defendants; brief of the law for petitioner.

In the Circuit court of the United States for the eastern division of the Eastern judicial district of Missouri.

Industrial legislation**American Association for Labor Legislation.**

r 338.9 A51c

Constitutional amendments relating to labor legislation and brief in their defense; submitted to the Constitutional convention of New York state by a committee organized by the American Association for Labor Legislation, June 9, 1915. [1915.]

r 338.9 A512

American labor legislation review; quarterly, 1911-date. v.1-date. 1911-date.

Published by the American Association for Labor Legislation.

Clark, Lindley Daniel.

338.9 C52

Law of employment of labor. 1911. Macmillan.

"List of cases cited," p.347-364.

Summarizes the more important enactments and judicial opinions which bear upon the employment of labor in this country. The scope of the work is comprehensive,

Clark, Lindley Daniel—*continued*.

338.9 C52

embracing not merely such fundamentals as the legal nature of the labor contract and the law governing the payment of wages, but also the regulation of the conditions of employment, the attitude of the courts towards labor organizations and labor disputes, doctrines concerning employers' liability, and legislation for the compensation of injured workmen. The list of cases cited comprises some thirteen hundred titles. *Condensed from Nation, 1912.*

Commons, John Rogers, & Andrews, J. B.

338.9 C73

Principles of labor legislation; prepared in co-operation with the American Bureau of Industrial Research. 1916. Harper. (Harper's citizens series.)

Contents: The basis of labor law.—Individual bargaining.—Collective bargaining.—The minimum wage.—Hours of labor.—Unemployment.—Safety and health.—Social insurance.—Administration.

"Select critical bibliography," p.465-488.

International Labour Office, Basel.

r 338.9 I24

Bulletin; quarterly, 1906-date. v.1-date. 1906-date.

A supplement devoted to the bibliography of labor and labor legislation is issued with each quarterly volume and is bound with the Bulletin.

Massachusetts. Statutes.

r 338.9 M45

Laws relating to labor, enforced by the State board of labor and industries, 1913. 1913. (Massachusetts—Labor and industries, State board of. Bulletin no.3.)

Pennsylvania. Statutes.

r 338.9 P39

Labor laws of Pennsylvania; comp. and annotated by J. Y. Brinton. 1914.

United States—Labor bureau.

r 331 U25an v.22

Labor laws of the United States, with decisions of courts relating thereto [in force at the close of 1907]. 1908. (In its Annual report, v.22.)

Contains also digests of apprentice laws, convict-labor laws, mechanic's-lien laws and a table showing the legal holidays.

The same, 1908-11. 1909-12. (In its Bulletin no.85, 91, 97.) . . r 331 U25b

Title reads "Review of labor legislation of 1908-11."

For earlier edition see preceding catalogue, v.4.

United States—Labor statistics bureau.

r 338.9 U25bu

Bulletin; foreign labor laws series, Feb. 1914. no.1. 1914.

United States—Labor statistics bureau.

r 338.9 U25b

Bulletin; labor laws of the United States, Dec. 1912-date. no.1-date. 1913-date.

Issued by the Labor bureau of the United States department of commerce and labor until March 1913, when that bureau became the Labor statistics bureau of the Labor department.

339 Pauperism

Dawson, William Harbutt.

339 D33

Vagrancy problem; the case for measures of restraint for tramps, loafers and unemployables, with a study of continental detention, colonies and labour houses. 1910. King.

"The leading contention here advanced is that society is justified, in its own interest, in legislating the loafer out of existence, if legislation can be shown to be equal to the task." *Introduction.*

- Heffner, William Clinton.** 339 H41
History of poor relief legislation in Pennsylvania, 1682-1913. 1913.
Holzapfel.
The same.....r 339 H41
Thesis for Ph. D., University of Pennsylvania.
- Todd, Arthur James.** r 339 T55
Some phases of the problem of poverty. [1913.]
Reprinted from the "Christian science monitor," May-June 1913.
- Withers, Hartley.** 339 W82
Poverty and waste. 1914. Smith, Elder.
"Attempts to bring home to the consumer his responsibility in the great problem of poverty, by showing how money spent on luxury is so much capital wasted, and how, if spent on necessary articles, it increases their production and decreases their price. The work of a practical business man, it combines moral earnestness with sound economic sense. Arguments are popularly and convincingly stated." *A. L. A. booklist*, 1914.

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"To furnish the American lawyer with an introduction to the literature of German legal institutions and German juristic thought. Leading works only are mentioned. Wherever possible, attention has been called to important contributions, both in the way of books and periodicals, in the English language; otherwise, except for a few standard works in French, the literature discussed is confined to the German. A glossary of technical terms...is printed as an appendix." *Prefatory note*.
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Coudert, Frederic René.

340 C83

Certainty and justice; studies of the conflict between precedent and progress in the development of the law. 1914. Appleton.

Contents: Certainty and justice.—The challenge to the constitution.—What is the matter with the law?—Jury trial as an instance of constitutional development.—Criminal procedure and the constitution.—The constitution and our new peoples; citizens, subjects, nationals or aliens.—The law and our industrial development; "the rule of reason."—Perversion of precedent; *stare decisis*; history misinterpreted.—Aliens and the progress of the law.—Progress of international law in treatment of political crime.—The crisis of the law; professional incompetency.

Mr Coudert cherishes the traditions of his profession too deeply to propound radical views, yet he feels that the law is an elastic system and can be moulded to suit changing conditions without undermining its authority. *Condensed from Green bag, 1914.*

r 340 H87

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For earlier editions see preceding volumes of this catalogue.

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Legal directory of Allegheny county, 1910/11, 1915/16-1916/17. [1910-16. Pittsburgh.]

Contains names of all members of Allegheny county bar, judges of all courts, magistrates of Pittsburgh, state, county, city officials, banks and trust companies.

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r 340 N15

Directory [containing names and addresses of attorneys, bankers and others who will render commercial service], 1914.

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340 V34

Common-sense in law. [1914.] Holt. (Home university library of modern knowledge.)

"Bibliographical note," p.249.

By an eminent English jurist. He analyzes the theories of the nature of law which have been held in various ages and applies them particularly to the practical workings of English jurisprudence. The best chapters are those on legislation, custom, judicial precedents and equity as sources of English law.

Compends

Mason, William Lesley, comp.

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How to become a law stenographer; a compendium of legal forms, containing a complete set of legal documents accompanied with full explanations and directions for arranging on the typewriter, for stenographers and typewriter operators. 1913. Pitman.

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Gareis, Karl.

340.1 G18

Introduction to the science of law; systematic survey of the law and principles of legal study; tr. from the third revised edition of the

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- Warren, Charles**. r 340.7 W24
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 law, Marine insurance, Declaration of Paris, Declaration of London. A section is
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 Proceedings of the annual meeting (8th-10th), 1914-16. 1914-16.
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- Arias, Harmodio.** 341 A69
 Panama canal; a study in international law and diplomacy. 1911.
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Contents: The United States and the interoceanic canal.—The juridical position of the Panama canal.
 "List of books and articles quoted or otherwise referred to in the text," p.11-14.
 Lucid account of the international aspects of the Panama canal. It sums up the legal questions involved and gives a clear idea of the law of neutralization in general, and as it applies to waterways, especially to the Suez and Panama canals.
- Barrett, John.** 341.1 B26
 Pan-American Union; peace, friendship, commerce. 1911. [Munder.]
 The Pan-American Union is a voluntary organization of the 21 American republics, including the United States, and is devoted to the development and conservation of peace, friendship and commerce among them all. This book explains the scope, purpose, history and work of the organization.
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Contents: Documents illustrating the nature, origin and development of international law.—Documents illustrating questions connected with the law of peace.—Documents illustrating questions connected with the laws of war.—Documents illustrating questions connected with the law of neutrality.
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 International law; a treatise. 2v. 1912. Longmans.
 v.1. Peace.
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 "Intended to be an elementary treatise for beginners...The author has taught the subject, both on the Continent...and in England...The lists of treatises and monographs printed at the commencement of each topic give a bibliography probably not accessible in any other English treatise. The only recent work with which it can be compared is Hall's 'International Law,' a book not elementary...The author has a system which underlies his analysis; the best and most important part of his system is his rule of giving his readers the law as it is, and not as it ought to be. This, combined with his natural international impartiality, makes his book an extremely fair and rational one." *Nation*, 1906.
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United States—Naval war college, Newport, R. I. r 341 U25in

International law; recent Supreme court decisions and other opinions and precedents; prepared under the direction of the United States naval war college. 1904.

Originally compiled by C. H. Stockton.

United States—Naval war college, Newport, R. I. r 341 U25i

International law situations [annual discussions], 1895–1905, 1912–15. [1895]–1916.

No volume issued for 1898.

Volume for 1901 wanting.

Deals with such topics as the use by ships of false colors, the supplying of fuel to belligerent vessels in a neutral port, mail and passenger vessels in time of war, and discusses many questions with reference to which precedents and law are not as yet firmly established.

For other volumes see preceding catalogue, v.6.

Vattel, Emmerich de. qr 341 V23

Le droit des gens; ou, Principes de la loi naturelle appliqués à la conduite et aux affaires des nations et des souverains, with an introduction by Albert de Lapradelle. 3v. 1916. Carnegie Institution of Washington. (Classics of international law.)

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"Bibliographie de ses différentes éditions," v.1, pref. p.56–59.

Westlake, John. 341 W56i

International law. 2 pts. in 2v. 1907–10. Cambridge University Press.

v.1. Peace.

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"Learned, sound, judicious, and a safe guide in matters where there is a special danger of mistaking and confounding what a theorist may think ought to be with what may be established and acknowledged by the international conscience and usage. Foreign jurists may take it as representative of the English point of view...As a textbook it is a model, neither too copious nor too compressed." *Saturday review*, 1908.

Zouche, Richard. qr 341 Z82

Iuris et iudicii fecialis, sive, iuris inter gentes, et quaestionum de eodem explicatio, qua quae ad pacem & bellum inter diversos principes aut populos spectant, ex praecipuis historico-jure-peritis, exhibentur; ed. by T. E. Holland. 2v. 1911. (Classics of international law.)

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"List of the works written by or attributed to Zouche," v.1, p.7–9.

Issued by Carnegie Institution of Washington.

Author (1590–1661) an English jurist, was one of the first systematic writers on international law.

Hague peace conferences

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"Mr. Choate, as the First Delegate of the United States at the Second Hague Peace Conference in June, 1907, is well qualified to treat the subject of which he speaks, and his study of the effects of this, also of the First Peace Conference in 1898, is a noteworthy contribution to our knowledge of international relations. It is only the larger and more enduring results that he puts before his readers." *Athenæum*, 1913.

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White, Andrew Dickson. 341.1 W63

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Wilson, George Grafton, ed. r 341.1 W76

The Hague arbitration cases; compromis and awards, with maps, in cases decided under the provisions of the Hague conventions of 1899 and 1907 for the pacific settlement of international disputes, and texts of the conventions. 1915. Ginn.

"The official language is always given, and when this is not English... a somewhat literal translation is furnished."

Treaties

Treaties made between the United States and other countries during any one Congress are published in the Statutes at large, issued at the end of each Congress, qr 345 U2534.

Albin, Pierre. r 341.2 A33

Les grands traités politiques; recueil des principaux textes diplomatiques depuis 1815 jusqu'à nos jours, avec des commentaires et des notes, préface de Maurice Herbette. 1911. (Bibliothèque d'histoire contemporaine.)

"Table chronologique," p. 561-566.

Includes the texts of more than 100 treaties and other important state documents of all nations, since 1815. Not only are famous documents given but a number of little known and not easily accessible texts relating to such states as Morocco, Abyssinia, China, Tibet, Chile and Peru. The editor's notes are very short.

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Law of war

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De jure et officiis bellicis et disciplina militari libri III; ed. by John Westlake. 2v. 1912. Carnegie Institution of Washington. (Classics of international law.)

v. 1. Reproduction of the first edition, with introduction by John Westlake.

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Barclay, Sir Thomas.

341.3 B23

Law and usage of war; a practical handbook of the law and usage of land and naval warfare and prize. 1914. Houghton.

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Small encyclopedia of war terms. Appendixes contain extracts from the Hague conventions, also later acts and proclamations aiming to regulate warfare.

Belgium—Delegates to the United States, 1914.

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Proceedings of an inquiry into the violation of the laws of war committed by the German army in its invasion of Belgian territory during the European war of 1914. Published for the Belgian envoys who were charged with a special mission to President Wilson and who presented their cause in this form. Includes also President Wilson's reply.

Clapp, Edwin Jones.

341.3 C51

Economic aspects of the war; neutral rights, belligerent claims and American commerce in the years 1914-15. 1915. Yale University Press.

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Cohen, Arthur.

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The development of belligerent occupation. 1912. (Iowa University. Studies in sociology, economics, politics and history, v.4, no.1.)

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Discussion of laws and usages from primitive times to the present, which have regulated the occupation of invaded territory during a period of conflict.

Davignon, Henri, comp.

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Belgium and Germany; texts and documents, preceded by a foreword. 1915. Nelson.

The story of Belgium's claim to independence and how she met the German invasion, with documents and pictures illustrating the devastation of war.

England—Trade board.

qr 341.3 E64

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Fanning, Clara Elizabeth, comp.

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Selected articles on the fortification of the Panama canal. 1912. Wilson.

The same.....r 341.3 F21

Grotius, Hugo.

qr 341.3 G93a

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Hale, William Bayard, comp.

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American rights & British pretensions on the seas; the facts and the documents, official and other, bearing upon the present attitude of Great Britain toward the commerce of the United States, with introductory memoranda. 1915. McBride.

Contents: The first encroachments.—The summit of arrogance.—Ships and cargoes stopped at sea.—The case of cotton.—Indirect interference with trade.—Interference with communication.—Our larger interests.—List of ships detained.—Quotations pertinent to the issue.—Official documents.—Diplomatic correspondence.

Henschel, Albert Edward.

r 341.3 H45

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Higgins, Alexander Pearce.

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Holland, Thomas Erskine.

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Codification of such usages as have by general acceptance become recognized as binding on civilized nations in time of war. Appendixes contain the more important national instructions as to the laws of war on land, the text of the Hague declarations and an historical review of the chief diplomatic notes relating to the laws of war.

Oklahoma University.

r 341.3 O22

Selling munitions of war; resolved: That the sale of munitions of war by neutrals to belligerents is right and expedient. 1915. (Bulletin; university extension series, no.26.)

"Bibliography, embargo on munitions of war," p.63-64.

Prussia—Grosser generalstab—Kriegsgeschichtliche abteilung.

341.3 P97

War book of the German general staff; being "The usages of war on land" issued by the Great general staff of the German army; tr. with a critical introduction by J. H. Morgan. 1915. McBride.

Also published under the title "German war book."

"Mr. Morgan's introduction...covers the Bismarckian diplomacy and its aftermath, the logical consequences of 'Kultur,' the philosophy of Treitschke. The interesting part of the volume is the actual text of the 'Kriegsbrauch in Landkriege'...Here may be found authority, or at the least excuse, for the whole policy of 'frightfulness' in Belgium and elsewhere, which is the charge laid against the German armies." *Nation*, 1915.

United States—War department.

341.3 U25

Rules of land warfare [with changes no.1, to May 11, 1915]. 1914-15.

The same. 1914.....r 341.3 U25

Prepared for the use of army officers. Contains the rules of military usage in the United States, also the laws of war formulated by means of international conventions and treaties. Appendixes contain the French and English text of the conventions of the second Hague conference and of the international Red Cross conference at Geneva.

International arbitration

See also War and peace, 172

American Society for Judicial Settlement of International Disputes.

r 341.6 A51j

Judicial settlement of international disputes, Aug. 1913-Dec. 1914. no.13-19. [1913-14.]

American Society for Judicial Settlement of International Disputes.

r 341.6 A51

Proceedings of national conference (3d-5th), under the auspices of American Society of Judicial Settlement of International Disputes, 1912-16, Washington, D. C.

For volume for 1910 see preceding catalogue, v.6.

Butler, Nicholas Murray.

341.6 B97

The international mind; an argument for the judicial settlement of international disputes. 1912. Scribner.

Contents: The progress of real internationalism.—The world's armaments and public opinion.—Are we our brothers' keepers?—The education of the world for peace.—The international mind.

Five addresses made as chairman of the Lake Mohonk conferences on international arbitration. As each address contains something in the way of a summary of the progress made toward judicial settlement during the preceding year, the collection embodies an informal history of the movement since 1905, as well as the main points in the reasoning on its behalf.

Carnegie Endowment for International Peace—

r 341.6 C21

Division of international law.

Pamphlet. no.1-date. 1914-date.

Jordan, David Starr, & Krehbiel, E. B. r 341.6 J42

Syllabus of lectures on international conciliation, given at Leland Stanford Junior University. 1912. World Peace Foundation.

"References" at the end of each lecture.

Lake Mohonk Conference on International Arbitration. r 341.6 L16w

[Winning essays in the Pugsley prize contests and the Black prize contests, 1911-15.] 1912-15.

Essays on international arbitration and peace.

Mahan, Capt. Alfred Thayer. 341.6 M25

Armaments and arbitration; or, The place of force in the international relations of states. 1912. Harper.

Contents: Armaments and arbitration.—Diplomacy and arbitration.—Navies as international factors.—The deficiencies of law as an instrument of international adjustments.—The place of force in international relations.—"The great illusion."—The Panama canal and sea power in the Pacific.—Why fortify the Panama canal?—The Naval War College.—Was Panama "a chapter of national dishonor?"

The first six chapters are devoted to the argument that arbitration cannot always take the place, either practically or beneficially, of the processes and results obtained by the free play of natural forces.

Reely, Mary Katharine, comp. 341.6 R28a

Selected articles on world peace, including international arbitration and disarmament. 1916. Wilson. (Debaters' handbook series.)

"Bibliography," p.15-34.

The same.....r 341.6 R28a

The same. 1914.....341.6 R28

"Bibliography," p.15-25.

The same.....r 341.6 R28

Scott, James Brown. q 341.6 S42

Status of the international court of justice, with an appendix of addresses and official documents. 1916. Oxford University Press.

Issued by the Division of international law of the Carnegie Endowment for International Peace.

The same. 1914.....r 341.6 S42

Issued by the American Society for Judicial Settlement of International Disputes.

Taft, William Howard. r 341.6 T13

Proposed arbitration treaties with Great Britain and France; address delivered before the American Society for Judicial Settlement of International Disputes, Cincinnati, Nov. 7, 1911. [1911.]

Reprinted from the "Proceedings" of the American Society for Judicial Settlement of International Disputes.

Taft, William Howard. 341.6 T13

The United States and peace. 1914. Scribner.

Contents: The Monroe doctrine; its limitations and implications.—Shall the Federal government protect aliens in their treaty rights?—Arbitration treaties that mean something.—Experiments in federation for judicial settlement of international disputes.

Appeared in the "Independent," v.76-78, Dec. 18, 1913-April 13, 1914.

342 Constitutional law and history

Goodnow, Frank Johnson. 342 G62

Principles of constitutional government. 1916. Harper. (Harper's citizens series.)

"Bibliographical note," p.391.

Goodnow, Frank Johnson—*continued*.

342 G62

Based on lectures at Peking University, 1913-14, when the author was legal adviser to the Chinese government.

"Because of the fact that the following pages were prepared for the purpose of presenting the problem of constitutional government to a people wholly unacquainted with its meaning, it is hoped that the volume will be found useful as a text-book for beginners." *Preface*.

Ogg, Frederic Austin.

342 O17g

Governments of Europe. 1913. Macmillan.

Contents: Great Britain.—Germany.—France.—Italy.—Switzerland.—Austria-Hungary.—The Low countries [Holland and Belgium].—Scandinavia.—The Iberian states [Spain and Portugal].

The constitutional history and the administrative machinery of the countries of western and central Europe are described with minuteness and accuracy.

Great Britain

Adams, George Burton.

342.4 A210

The origin of the English constitution. 1912. Yale University Press.

Author here sets forth his theory of the feudal origin of the English constitution and asserts the importance of Magna carta in transferring the feudal idea to the fundamental principles underlying the English limited monarchy. Most of the chapters are reprints of articles published in the "English historical review" and the "American historical review."

Barker, J. Ellis.

342.4 B24

Great and greater Britain; the problems of motherland and empire, political, naval, military, industrial, financial, social. 1910. Smith, Elder.

"Attempts to forecast the future of Britain: whether it is to be continued greatness or decay... The chief emphasis is laid on the necessity for military and naval efficiency, nearly half the book being devoted to the discussion of those subjects from various points of view." *Annals of the American Academy of Political and Social Science*, 1910.

Butler, Nicholas Murray.

r 342.4 B97

Magna carta, 1215-1915; an address delivered before the Constitutional convention of the state of New York, June 15, 1915. 1915.

Dicey, Albert Venn.

342.4 D541

Lectures on the relation between law and public opinion in England during the 19th century. 1914. Macmillan.

"Mr. Dicey's review of the interaction upon one another of legislation and opinion is valuable and original, and makes the volume a striking contribution to legal and institutional history." *Nation*, 1905.

To the edition of 1914 is added a new introduction which traces the changes in English law and English legislation during the early years of the 20th century.

Egerton, Hugh Edward.

342.4 E35

Federations and unions within the British empire. 1911. Clarendon Press.

Contents: Introduction.—The Articles of confederation of 1643.—William Penn's plan of union.—Benjamin Franklin's Albany proposals.—The British North America act, 1867.—Report of Privy council; Constitution for the Australian colonies.—The Commonwealth act, 1900.—The Union of South Africa act, 1909.

"Bibliography," p.292-296.

Howard, George Elliott.

r 342.4 H84

English political and constitutional history, 1600-1900; syllabus of a course of lectures delivered at Cornell University, July-Aug. 1902. 1902. Cornell University.

"Select bibliographies," p.42-50.

- May, Sir Thomas Erskine.** 342.4 M52c
Constitutional history of England, 1861-1911; ed. by Francis Holland. v.3a. 1912.

"Takes up the subject very nearly where Hallam left off, that is, commencing with accession of George III... May's literary style is more entertaining than Hallam's, and the work is one of historical value." *R. G. Thwaites*.

For v.1-3 see preceding catalogue, v.1.

- Petit-Dutaillis, Charles Edmond.** 342.4 P46
Studies and notes supplementary to Stubbs' Constitutional history down to the Great charter; tr. by W. T. Waugh. v.2. 1915. Manchester University Press. (Manchester University. Historical series.)

Stubbs's "Constitutional history," though still indispensable as a whole, has in numerous important particulars become entirely out of date. When, in 1907, Prof. Petit-Dutaillis published the first volume of his translation of the history he added 130 pages of supplement and correction, incorporating in the original the results of the researches of Fustel de Coulanges, Meitzen, Maitland, Seebohm, Round and others, bringing Stubbs's work for the first time really up to date. The present book is a careful English translation of these additional pages.

For v.1 see preceding catalogue, v.6.

Germany

- Krüger, Fritz Konrad.** 342.43 K42
Government and politics of the German empire. 1915. World Book Co. (Government handbooks.)

Contents: The physical basis of the German empire.—The foundation of the German empire.—The development of the constitution.—The nature of the German empire.—The Reichstag.—The Bundesrat.—The kaiser.—The chancellor and his substitutes.—The law-making process.—The administration of the interior.—The finances of the German empire.—The army.—The navy of the empire.—Railroads, canals, posts and telegraphs.—The government of Alsace-Lorraine.—The judicial system of the German empire.—The parliamentary history of Germany.—Germany's foreign policy since 1871.—The colonial dependencies.

"Critical bibliography," p.277-309; "Selected bibliography" at the end of each chapter.

- Steed, Henry Wickham.** 342.43 S81
The Hapsburg monarchy. 1913. Scribner.

Authoritative work which shows unusual powers of observation. Sketches the functions and describes the powerful influence of the monarchy, discusses the racial animosities of the people and their disintegrating influences. The chapter on Austrian foreign policy is also important. *Condensed from Athenæum, 1914.*

United States

- Ashley, Roscoe Lewis.** 342.7 A82a
American Federal state; its historical development, government and policies. 1914. Macmillan.

Appendices: Articles of Confederation.—Constitution of the United States.—Prominent national officials.—The states; area and population.—State constitutions.—Suffrage requirements.—State governments.

Contains numerous references.

- Beard, Charles Austin.** 342.7 B34a
American government and politics. 1914. Macmillan.

The same......r 342.7 B34

Bibliography, p.767-775.

Compilation from "the best authorities of recent times." Although designed for college students, it is too crowded with details to serve as a continuous text-book, while

Beard, Charles Austin—*continued*.

342.7 B34a

many of the laws and statistics are too quickly superseded for the volume to be satisfactory as a reference repository for more than a brief period. But for a rapid summary of past conditions and for a flash-light picture of the present chaos of our governmental machinery, the work is unsurpassed. *Condensed from American historical review, 1911.*

Beard, Charles Austin.

342.7 B34e

Economic interpretation of the constitution of the United States. 1913. Macmillan.

"Book for the special student in which the author places the whole emphasis upon four groups of personalty interests, money, public securities, manufactures and trade and shipping, as instrumental in the framing and acceptance of the Constitution." *A. L. A. booklist, 1913.*

Beard, Charles Austin.

342.7 B34ec

Economic origins of Jeffersonian democracy. 1915. Macmillan.

"Professor Beard continues in this volume, through the Administrations of Washington and Adams, the line of inquiry begun in his 'Economic interpretation of the Constitution' [342.7 B34e]...namely an examination of the personal interest of members of Congress and other Federal officers, through the holding of public securities or participation in financial transactions, in the policies of the Federalist and Anti-Federalist parties; joined to a study of the general economic influences which affected, in the twelve years under consideration, the discussion of public questions. No more important contributions to the study of American history have been made for many years than these two volumes contain." *Nation, 1916.*

Beard, Charles Austin, ed.

342.7 B34r

Readings in American government and politics. 1911. Macmillan.

The same. 1913.....r 342.7 B34r

Collection of illustrative material designed primarily to accompany the author's "American government and politics." Covers state and city as well as Federal government.

Columbia University, New York—Legislative drafting research fund.

r 342.7 C72

Index digest of state constitutions; prepared for the New York state constitutional convention commission. 1915.

Dealey, James Quayle.

342.7 D34g

Growth of American state constitutions from 1776 to the end of the year 1914. 1915. Ginn.

Contains bibliographies.

Enlarged edition of his "Our state constitutions," which was published in 1907 as a supplement to the "Annals of the American Academy of Political and Social Science" (342.7 D34).

Elliott, Edward.

342.7 E52

Biographical story of the constitution; a study of the growth of the American union. 1910. Putnam. (American politics.)

Contents: The "Fathers;" inception through compromise.—Alexander Hamilton; growth through administrative organization.—James Wilson; growth through speculative forecast.—Thomas Jefferson; growth through acquiescence.—James Madison; growth through formulation.—John Marshall; growth through legal interpretation.—Andrew Jackson; growth through democratization.—Daniel Webster; growth through rising national sentiment.—J. C. Calhoun; retardation through sectional influence.—Abraham Lincoln; growth through Civil war.—Thaddeus Stevens; growth through reconstruction.—Theodore Roosevelt; growth through expansion.—Appendix.

"Bibliography," p.377-384.

"Notwithstanding the evident temptations to overstatement, the treatment throughout...is sane and logical. Every chapter shows careful study and analysis...Useful as an introduction to American political theory." *American historical review, 1910.*

- Farrand, Max.** 342.7 F24
 Framing of the constitution of the United States. 1913. Yale University Press.
The same.....r 342.7 F24
 Founded upon "Records of the Federal convention" edited by the author.
 "Summary of the impressions of the Federal Convention...While the narrative is made simple and references are omitted, the book is the result of a scholarly investigation, and in every page meets the tests of criticism." *Dial*, 1913.
- Forman, Samuel Eagle.** 342.7 F77
 Advanced civics; the spirit, the form and the functions of the American government. 1912. Century.
 "Suggestive questions and exercises" at the end of each chapter; "List of books to which references are made," p.437.
 Pt.1 presents the underlying principles of American government; pt.2, an account of the governmental machine; pt.3, the every-day work of government and the practical problems connected with it.
- Goodnow, Frank Johnson.** 342.7 G62
 Social reform and the constitution. 1911. Macmillan. (American social progress series.)
Contents: The demands of social reform.—The constitutionality of uniform commercial regulation.—The power of Congress to charter interstate commerce corporations.—The power of Congress over the private law in force in the United States.—The constitutionality of political reform.—The constitutionality of government regulation.—The constitutionality of government aid.—The attitude of the courts towards measures of social reform.
 "Table of cases," p.9-21.
- Hadley, Arthur Twining.** 342.7 H12
 Undercurrents in American politics; comprising the Ford lectures, delivered at Oxford University and the Barbour-Page lectures, delivered at the University of Virginia in the spring of 1914. 1915. Yale University Press.
Contents: Property and democracy; The gradual development of American democracy; The constitutional position of the property owner; Recent tendencies in economics and in legislation.—Political methods old and new; The growth of party machinery; The reaction against machine control; The seat of power today.
- Hill, David Jayne.** 342.7 H55
 Americanism; what it is. 1916. Appleton.
Contents: The American conception of the state.—The crisis in American constitutionalism.—Taking soundings.—The tests of American democracy.—Americanism and world politics.—The duty of national defense.—New perils for Americanism.
- Legal Aid Society of Westchester County, N. Y.** 342.7 L54
 Principles of government under the U. S. constitution set forth in questions and answers, specially intended for applicants for naturalization. 1909.
 English and Italian text.
- McLaughlin, Andrew Cunningham.** 342.7 M19
 The courts, the constitution and parties; studies in constitutional history and politics. 1912. University of Chicago Press.
Contents: The power of a court to declare a law unconstitutional.—The significance of political parties.—Political parties and popular government.—Social compact and constitutional construction.—A written constitution in some of its historical aspects.
 "Essays and addresses which, although prepared on separate occasions, have a unity of their own because they deal with a few fundamental and closely related problems of American constitutionalism and party government." *American historical review*, 1913.

Ohio—State library. r 342.7 O18

Digest of state constitutions; ed. by J. H. Newman. 1912.

Root, Elihu. 342.7 R68

Experiments in government and the essentials of the constitution. 1913. Princeton University Press. (Stafford Little lectures for 1913.)

Scott, Eben Greenough. 342.7 S42

Development of constitutional liberty in the English colonies of America. 1882. Putnam.

"Thoughtful and suggestive but somewhat imaginative piece of historical work, philosophical in tone, seeking to disclose the moving spirit and dominant ideals of colonial life. It does not contain, as its name might imply, a careful and systematic unfolding of the constitutional forms and principles or the governmental methods of the colonies; but it treats of the sentiments, the social and industrial characteristics of the times. A tendency to over-generalization and to throw a bright light upon all phases of colonial life detracts somewhat from the value of a very helpful and stimulating book." *Larned's Literature of American history*.

Shimmell, Lewis Slifer. 353.9 S55g

Government of the United States. 1912. Merrill.

Bound with his "Government of Pennsylvania."

Taylor, Hannis. qr 342.7 T25r

Real authorship of the constitution of the United States explained; James Madison and Pelatiah Webster defended against attacks contained in Senate document no.402, 62d congress, second session, entitled "Pelatiah Webster and the constitution, an article prepared by Gaillard Hunt and published in the Nation of Dec. 28, 1911." 1912. (United States. 62d cong. 2d sess. Senate. Doc. no.787, v.29.)

Thorpe, Francis Newton. 342.7 T41g2

Government of the nation; a course in civil government based on "The government of the people of the United States." 1912. Hinds.

United States. Constitution. 342.7 U25

The constitution as it is; a logically arranged compilation of the constitution of the United States with amendments incorporated; ed. by W. S. McDowell, introduction by Joseph Buffington. 1916. [Anderson. Pittsburgh.]

The same.....r 342.7 U253c

United States. Constitution. qr 342.7 U253

Constitution of the United States of America, as amended to May 1, 1913. 1913. (63d cong. 1st sess. Senate. Doc. no.12, v.2.)

Canada

Canada—Archives. r 342.71 C16

Documents relating to the constitutional history of Canada, 1791-1818; selected and ed. with notes. v.2. 1914.

v.2. 1791-1818; selected and ed. by A. G. Doughty and D. A. McArthur.

For v.1 see preceding catalogue, v.6, under Shortt, Adam, & Doughty, A. G. ed.

Munro, Joseph Edward Crawford. 342.71 M96

Constitution of Canada. 1889. Cambridge University Press.

"Book is formal and official, and treats the Canadian constitution from a purely legal and technical point of view." *Athenæum*, 1889.

Separate states

New York (state). Constitution. r 342.74 N2611

New York state constitution annotated; prepared under the direction of the New York State Library. 2 pts. in iv. 1915.

Contents: Text in force April 6, 1915, with notes.—Amendments adopted and proposed, 1895-1914.

New York (state)—Constitutional convention, 1915. r 342.74 N2612d

Documents of the Constitutional convention of the state of New York, 1915, begun and held at the capitol in the city of Albany on Tuesday, the sixth day of April. 1915.

New York (state)—Constitutional convention, 1915. r 342.74 N2612j

Journal of the Constitutional convention of the state of New York, 1915, begun and held at the capitol in the city of Albany on Tuesday, the sixth day of April. 1915.

New York (state)—Constitutional convention, 1915. qr 342.74 N2612

Proposed amendments of the Constitutional convention of the state of New York, 1915. 2v. 1915.

New York (state)—Constitutional convention, 1915. r 342.74 N2613

Record [unrevised] of the convention begun and held in Albany on the sixth day of April, 1915. 4v. 1915.

New York (city), Academy of Political Science. r 342.74 N26

Revision of the state constitution; a collection of papers, addresses and discussions presented at the annual meeting, Nov. 19-20, 1914. 2 pts. in 2v. 1915.

v.1. General principles and mechanics of revision.—The structure of state government.

v.2. City and county government.—Regulation of economic and social conditions. *The same.* 1914. (In its Proceedings, v.5, no.1-2.).....r 305 N26 v.5

New York (city), Bureau of Municipal Research. r 342.74 N261

Constitution and government of the state of New York; an appraisal, transmitted to the New York state constitutional convention. 1915.

Prepared by the Bureau of municipal research and the New York state department of efficiency and economy.

Pennsylvania—Legislative reference bureau. r 342.74 P399a

Constitutions of Pennsylvania, and Constitution of the United States; analytically indexed and with index of legislation prohibited in Pennsylvania, prepared by J. H. Fertig and F. M. Hunter. 1916.

The same, by James McKirdy. 1912.....r 342.74 P399

Edition of 1912 does not contain United States constitution nor the constitutions of Pennsylvania for 1776, 1790 and 1838.

Thorpe, Francis Newton. 342.7 T41g2

Government of the people of the state of Pennsylvania. 1912. Hinds. Bound with his "Government of the nation."

Galbreath, Charles Burleigh. r 342.77 G14

Ohio constitutional conventions; law providing for fourth constitutional convention. 1911. Heer.

Published by order of the Board of library commissioners.

Briefly outlines the provisions of the four constitutions and gives the text of the law providing for the fourth constitutional convention.

Patterson, Isaac Franklin, *comp.*

r 342.77 P31

The constitutions of Ohio, amendments and proposed amendments, including the ordinance of 1787, the act of Congress dividing the Northwest territory, and the acts of Congress creating and recognizing the state of Ohio; complete original texts, with historical data, records of the vote cast, contemporary newspaper comment, detailed comparisons and historical introduction. 1912. Clark.

343 Criminal law

Train, Arthur Cheney.

343 T68a

Prisoner at the bar; sidelights on the administration of criminal justice. 1908. Scribner.

Contents: What is crime?—Who are the real criminals?—The arrest.—The police court.—The trial of misdemeanors.—The grand jury.—The law's delays.—Red tape.—The trial of felonies.—The judge.—The jury.—The witness.—The verdict.—The sentence.—Women in the courts.—Tricks of the trade.—What fosters crime.—Insanity and the law.

Author is (1907) assistant to District Attorney Jerome of New York.

United States—Library of Congress.

qr o16 U25b v.5

Select list of references on impeachment, with additions [by] H. H. B. Meyer. 1912.

Bound with other bibliographies issued by the Library of Congress.

United States—Senate.

r 343 U25

Extracts from the Journal of the United States Senate in all cases of impeachment presented by the House of representatives, 1798–1904. 1912. (62d cong. 2d sess. Senate. Doc. no.876, v.32.)

Impeachment of William Blount, John Pickering, Samuel Chase, James H. Peck, West H. Humphreys, Andrew Johnson, William Belknap and Charles Swayne.

Trials

Blandy, Mary, *defendant.*

343.1 B53

Trial of Mary Blandy; ed. by William Roughead. [1914.] Cromarty Law Book Co. (Notable English trials.)

"Bibliography of the Blandy case," p.205–208.

Burke, Peter.

r 343.1 B91

Recollections of the court room; or, Narratives, scenes and anecdotes from courts of justice. 1859. Dayton.

Childers, Hugh.

343.1 C43

Romantic trials of three centuries. 1913. Lane.

Contents: The great alibi.—The Lowestoft witches.—A Quaker in court.—Tom of ten thousand.—Beau Feilding and the duchess.—Elizabeth, duchess of Kingston.—The macaroni parson [William Dodd].—The Lyons mail.—The case of Jean Peltier.—Wager of battle.—The trial of Disraeli.—Lord Cardigan as duellist.

Dickman, John Alexander, *defendant.*

343.1 D55

Trial of John Alexander Dickman; ed. by S. O. Rowan-Hamilton. [1914.] Cromarty Law Book Co. (Notable English trials.)

Lamson, George Henry, *defendant.*

343.1 L21

Trial of George Henry Lamson; ed. by H. L. Adam. 1913. Cromarty Law Book Co. (Notable English trials.)

- Lang, Andrew, ed.** 343.1 A61
The Annesley case. [1912.] Cromarty Law Book Co. (Notable English trials.)
"The trial in ejectment between Campbell Craig, lessee of James Annesley, esq.,—plaintiff; and...Richard, earl of Anglesea,—defendant" to test the claim of James Annesley to be the legitimate son and heir of Arthur, lord Altham.
- Lovat, Simon Fraser, lord, defendant.** 343.1 L93
Trial of Simon, lord Lovat of the '45; ed. by D. N. Mackay. [1911.] Cromarty Law Book Co. (Notable English trials.)
"Books dealing with Lord Lovat," p.308-310.
- Maybrick, Mrs Florence Elizabeth (Chandler), defendant.** 343.1 M53
Trial of Mrs Maybrick; ed. by H. B. Irving. [1912.] Canada Law Book Co. (Notable English trials.)
- Morse, John Torrey.** 343.1 M92
Famous trials. 1874. Little.
Contents: Tichborne.—Troppmann and Bonaparte.—Mrs Wharton.—The Meteor.—Mrs L. D. Fair.
- Müller, Franz, d. 1864, defendant.** 343.1 M95
Trial of Franz Müller; ed. by H. B. Irving. [1911.] Cromarty Law Book Co. (Notable English trials.)
- Palmer, William, defendant.** 343.1 P19
Trial of William Palmer; ed. by G. H. Knott. [1912.] Cromarty Law Book Co. (Notable English trials.)
- Seddon, Frederick Henry, defendant.** 343.1 S44
Trial of the Seddons; ed. by Filson Young. [1914.] Cromarty Law Book Co. (Notable English trials.)
- [Smith, John Jay, comp.]** 1 343.1 S65
Celebrated trials of all countries, and remarkable cases of criminal jurisprudence; selected by a member of the Philadelphia bar. 1835. Carey.
- Staunton, Louis Adolphus Edmund, defendant.** 343.1 S79
Trial of the Stauntons; ed. by J. B. Atlay. [1911.] Cromarty Law Book Co. (Notable English trials.)
- Sulzer, William, defendant.** 1 343.1 S95
Proceedings of the Court for the trial of impeachments; the people of the state of New York, by the Assembly thereof, against William Sulzer as governor, held at Albany, New York, Sept. 18 to Oct. 17, 1913. 2v. 1913.
- Watson, Eric Russell.** 343.1 W31
Eugene Aram, his life and trial. [1913.] Cromarty Law Book Co. (Notable English trials.)
"Bibliography of Eugene Aram," p.207-219.

Juvenile courts

Eliot, Thomas Dawes. 343.12 E47

The juvenile court and the community. 1914. Macmillan. (American social progress series.)

Does not describe the internal workings of the court but rather its relation to the social economy of the community. Discusses the danger of political interference, the need of coöperation with social and administrative agencies and the proper limits of the court's jurisdiction. Also compares conditions of juvenile court work in various cities.

Flexner, Bernard, & Baldwin, R. N. 343.12 F63

Juvenile courts and probation. 1914. Century.

"Selected references," p.292-298.

"For judges, probation officers, and interested laymen rather than the general reader... Comprehensive presentation of the problems and methods of the juvenile court." *Nation*, 1914.

Seattle, Wash.—Juvenile court. r 343.12 S44

Annual report, 1913; why children go wrong. 1914.

Contents: Court methods, mothers' pensions and community dangers, by A. W. Frater.—The responsibility of the home; Physical and mental conditions, by Lilburn Merrill.

Punishment of criminals

Fanning, Clara Elizabeth, comp. 343.2 F21a

Selected articles on capital punishment. 1913. Wilson. (Debaters' handbook series.)

"Bibliography," p.13-24.

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"Bibliography," p.1-8.

Ralston, Robert. r 343.2 R17

Delay in the execution of murderers; a paper, with appendices and a tabular statement, read at the 17th annual convention [of the Pennsylvania Bar Association], Bedford Springs, Pa., June 28, 1911. [1911.] Pennsylvania Bar Assoc.

Saleilles, Raymond. 343.2 S16

Individualization of punishment, with an introduction by Gabriel Tarde; tr. from the second French edition by R. S. Jastrow, with an introduction by Roscoe Pound. 1911. Little. (Modern criminal science series.)

"List of periodicals referred to in notes and text," p.39.

Thoughtful and scholarly work by the professor of comparative law in the University of Paris (1911). He is a believer in responsibility, but since, as he holds, the degree of responsibility is indeterminable, the individualization of punishment must rest upon other considerations, which are mainly reformatory, but partly deterrent and measured by the gravity of the offense. His analysis of these considerations is most instructive. *Condensed from Nation*, 1911.

United States—Library of Congress. qr o16 U25b v.4

Select list of references on capital punishment; comp. under the direction of H. H. B. Meyer. 1912.

Bound with other bibliographies issued by the Library of Congress.

344 Martial law

- United States**—War department. 344 U25
 Manual for courts-martial, courts of inquiry and of other procedure under military law. 1916.
The same. 1916.....r 344 U25a4
The same, corrected to Aug. 1910, with additions.....r 344 U25a3

345 Statutes

- Byrns, Elinor, & Ranlett, Helen, comp.** qr 345 B99
 Man and woman-made laws of the suffrage states; a digest of legislature [*sic*], good and bad, for which men and women must share equal responsibility. National Amer. Woman Suffrage Assoc.
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Lenox and Tilden foundations.

List of city charters, ordinances and collected documents. (In its Bulletin, 1912-13, v.16-17.)

r 016.352 N26

New York (city)—Public library. Astor, Lenox and Tilden foundations. Municipal reference library.

Municipal reference library notes [weekly], Oct. 28, 1914-date. v.1-date. 1914-date.

Beginning with v.1, no.16, Feb. 10, 1915, the "Monthly list of New York city publications" is included.

Wright, Joseph, comp.

qr 016.352 W93

Check list of bibliographies relating to municipal government. [1914.]

Reprinted from the "National municipal review," April 1914.

General works

American Academy of Political and Social Science.

352 A51e

Efficiency in city government. 1912.

v.41, no.3, May 1912, of the "Annals of the American Academy of Political and Social Science."

The same. 1912. (In American Academy of Political and Social Science. Annals, v.41.)..... r 306 A51 v.41

Papers by experts on the application of the principles of efficiency to the various departments of city government, on bureaus of municipal research and on training for municipal efficiency.

qr 352 L45b

American municipalities; monthly, Oct. 1911-date. v.22-date.

No numbers were issued from May-Sept. 1911. In Oct. 1911 the "City hall" absorbed "Midland municipalities" and adopted its volume numbering.

v.22-23, Oct. 1911-Sept. 1912, title reads "City hall-Midland municipalities."

v.24-date, Oct. 1912-date, title reads "American municipalities."

For v.2-12 see preceding catalogue, v.6, under title "City hall."

Beard, Charles Austin.

352 B34

American city government; a survey of newer tendencies. 1912. Century.

The same.....r 352 B34am

Contents: The people of the city.—Home rule.—Municipal democracy.—Municipal government and administration.—Raising and spending the city's money.—Guarding the city against crime and vice.—Franchises and public utilities.—Municipal ownership.—The streets of the city.—Guarding the health of the people.—Tenement-house reform.—Education and industrial training.—Municipal recreation.—City planning.—APPENDICES: Outline of sections for a model street railway franchise.—Recommendations of the New York city commission on congestion.

"Bibliography," p.409-413.

Not a systematic treatise on municipal government, less than one-third of the space being given to politics and administration. The emphasis is laid on its social and economic functions.

Cobden Club.

352 C63

Local government and taxation; Cobden Club essays; ed. by J. W. Probyn. 1875. Cassell.

Series of essays on municipal government and taxation in different countries, published by a London club which was founded for the purpose of promoting the free trade doctrines with which Cobden's name is associated.

Dawson, William Harbutt.

352.043 D33

Municipal life and government in Germany. 1914. Longmans.

Contents: The tradition of self-government.—Administrative powers.—Constitution of town councils.—Distribution of administrative powers, town council, executive and mayor.—Land policies.—The planning of towns.—Housing policies.—Public health.—Trading enterprises.—Relief of the poor.—Social welfare work.—Intellectual life.—Municipal finance.—Municipal taxation.—Survey and comparison.—Appendices: Organisation for purposes of local government in Germany; Regulations of municipal land funds; By-laws relating to betterment contributions; Town planning and expropriation legislation of Germany; Agreement for the erection and sale of working-class dwellings by the municipality of Jena; Rules of the municipal legal advice office at Nuremberg; Municipal theatre regulations of Halle (the subsidy system); Municipal reform programmes.

Farrington, Frank.

352 F25

Community development; making the small town a better place to live in and a better place in which to do business. 1915. Ronald Press Co.

"Publications helpful in community development," p.255-257.

Deals with business men's organizations, commercial clubs, and town advertising. Demonstrates that in many ways the small town may have the advantage of the larger one if there is intelligent coöperation in town affairs.

Hichborn, Franklin.

352 H52

"The system" as uncovered by the San Francisco graft prosecution. 1915. Barry Co.

Hill, Mabel.

j 352 H55

Lessons for junior citizens, with an introduction by A. B. Hart. 1906. Ginn.

Appendix contains children's and teachers' lists of books.

In story form describes the working of the city police, fire and street departments, the park commission, juvenile court, etc. Includes chapter on the peace movement and many practical suggestions for teachers.

Howe, Frederic Clemson.

352 H85e

European cities at work. 1913. Scribner.

Contents: The birth of the German city.—Impressions of European cities.—Düsseldorf and municipal socialism.—Frankfort-on-the-Main; an example of business adminis-

Howe, Frederic Clemson—*continued.*

352 H85c

tration.—Town planning and city building.—Cities for people.—Protecting the worker.—The vision of the German city.—The housing problem in Germany.—Socializing the means of transit.—New sources of revenue; the unearned increment taxes.—The budget of the German city.—How the German city is governed.—The business men who rule the German city and their ideals.—The explanation of the German city.—Impressions of the British city.—How the British city is governed.—The explanation of the British city.—Municipal ownership of the gas supply.—Municipal transit in Great Britain.—The American and European city; a comparison.

Howe, Frederic Clemson.

352 H85m

The modern city and its problems. 1915. Scribner.

"Bibliography," p.377-383.

"Comprehensive and interesting outline of city problems in America and actual accomplishments at home and abroad, in convenient form for study or reference. There are historical chapters, others on municipal home rule, and on administration abroad, but the emphasis is on physical and social features." *A. L. A. booklist*, 1915.

James, Herman Gerlach.

r 352.007 J16

University training for municipal administration. 1915. University of Texas. (Texas University. Bulletin; municipal research series, no.11.)

King, Clyde Lyndon.

r 352 K26

History of the government of Denver with special reference to its relations with public service corporations. 1911. Fisher Book Co.

"Bibliography," p.11-16.

Thesis for Ph. D., University of Pennsylvania.

r 352 K37

Kommunales jahrbuch; hrsg. von H. Lindemann [und anderen], 1913/14. 6. jahrgang. 1914.

Information on the municipal activities of Germany, gathered by specialists. Deals with such subjects as public health, charities, care of children, markets, moving pictures and theatres, housing, civic improvement, municipal government and finance, fire protection, and public utilities.

Matthews, Nathan.

352 M47

Municipal charters; a discussion of the essentials of a city charter, with forms or models for adoption. 1914. Harvard University Press. (Harvard University—Research in municipal government, Bureau for. Publications.)

The same..... r 352 M47

Munro, William Bennett.

352 M968g

Government of American cities. 1913. Macmillan.

Contents: American municipal development.—The social structure of the city.—The city and the state.—Municipal powers and responsibilities.—The municipal electorate.—Municipal nominations and elections.—Municipal parties and politics.—The city council.—The mayor.—The administrative departments.—Municipal officials and employees.—City government by a commission.—Direct legislation and the recall.—Municipal reform and reformers.

"References" at the end of each chapter.

"Professor Munro is at once historian and judge...His book is authoritative both for the history of the development of our city government, and for the presentation of the considerations for and against proposed changes in it. These considerations are set forth with an adequacy and fairness that make them historical, too, rather than polemical." *Nation*, 1913.

Munro, William Bennett.

352 M968p

Principles and methods of municipal administration. 1916. Macmillan.

Contents: The quest for efficiency.—City planning.—Streets.—Water supply.—Waste disposal and sewerage.—Public lighting.—Police administration.—Fire prevention and fire protection.—School administration.—Municipal finance.

Intended to supplement his "Government of American cities" (352 M968g).

National Municipal League.

r 352 N1552h

Hand book, 1914. 1914.

qr 352 N1553

National municipal review; quarterly, 1912–date. v.1–date.

Pollock, Horatio M. & Morgan, W. S.

352 P76

Modern cities; progress of the awakening for their betterment here and in Europe. 1913. Funk.

Authors spent several months abroad studying the best features of municipal life in European cities. The results are embodied in this optimistic survey of municipal progress in city planning, housing, conservation of human life, government, education, religion, and the problem of the social evil. Appendix shows the elements of corruption in British cities before the municipal reform act of 1835.

Putnam, Frank.

r 352 P99

City government in Europe; Houston's inquiry into municipal organization and administration in the principal cities of Great Britain and Germany, with a report of findings and recommendations for Houston's guidance in developing a great seaport city on the Gulf of Mexico. 1913.

Published by the city of Houston, Texas.

Seiler, Carl Linn.

352 S46

City values; an analysis of the social status and possibilities of American city life. [1912. University of Pennsylvania.]

Thesis for Ph. D., University of Pennsylvania.

Sparks, Frank M.

352 S73

The business of government; municipal. 1916. Rand.

Systems and methods employed in all branches of city government.

Texas University—Municipal research and reference bureau.

r 352 T32

Biennial report (1st), 1913–15. 1915. University of Texas. (Texas University. Bulletin; municipal research series, no.12.)

Williams College—Good government club.

r 352 W74

Annual report (3d–4th), 1911/12–1912/13. [1912–13.]

For report for 1909/10 see preceding catalogue, v.6.

Zueblin, Charles.

352 Z85a

American municipal progress. 1916. Macmillan. (Social science text-books.)

Contents: The conservation of the city.—The city portal.—Municipal railway regulation.—The city street.—The city's wastes.—Water and sewerage.—Public health.—Protection.—Justice and charity.—Indoor education.—Outdoor education.—Higher education.—Public libraries and museums.—Social centers.—Parks and boulevards.—Public recreation.—City planning.—Municipal ownership.—Municipal administration.—Municipal efficiency.

"Bibliography;" prepared by H. B. Sweeney, p.429–495.

Commission form of government

American Academy of Political and Social Science. 352 A51c

Commission government in American cities. 1911.

v.38, no.3, Nov. 1911, of the "Annals of the American Academy of Political and Social Science."

The same. 1911. (In American Academy of Political and Social Science. Annals, v.38.).....r 306 A51 v.38**Bradford, Ernest Smith. 352 B68**Commission government in American cities. 1911. Macmillan.
(Library of economics and politics.)

"List of references," p.339-353.

"Best single-volume presentation of the subject yet published. The spread of commission government since its inception at Galveston, 1901, is described, and a comparison of different forms of the commission plan made. Clear summaries of checks to popular control, the referendum, initiative, recall and other provisions are given. Tables of commission-governed cities illustrate various phases of the plans in operation." *A. L. A. booklist, 1912.**The same.*.....r 352 B68

Thesis for Ph. D., University of Pennsylvania.

Bruère, Henry. 352 B82The new city government; a discussion of municipal administration based on a survey of ten commission governed cities. 1912. Appleton.
(Metz fund handbooks of city business methods.)"This study of the commission form of government is based upon a field survey of ten cities made in 1911...for the Metz fund of the Bureau of municipal research. The facts presented are the result of interviews with public officials and of a study of official records and reports." *Introduction.***Des Moines, Iowa. r 352 D462d**

Des Moines plan of commission government. 1912.

"List of references to some of the best articles written on the Des Moines plan of commission government," p.37-42.

National Municipal League. 352 N15c

The commission plan and commission-manager plan of municipal government; an analytical study by a committee of the National Municipal League. [1914.]

The same......r 352 N1552c**Ryan, Oswald. 352 R95**

Municipal freedom; a study of the commission government, with an introduction by A. L. Lowell. 1915. Doubleday. (The American books.)

"Selected references on commission government," p.221-233.

United States—Library of Congress. qr 016 U25b v.5

Select list* of references on commission government for cities; comp. under the direction of H. H. B. Meyer. 1913.

Bound with other bibliographies issued by the Library of Congress.

City manager plan

James, Herman Gerlach. r 352.021 J16

What is the city manager plan? 1915. University of Texas. (Texas University. Bulletin; municipal research series, no.6.)

"Bibliography on the city manager plan of municipal government," p.24-25.

McClintock, Oliver.

r 352.021 M13

Report of Oliver McClintock, delegate to annual conference of the National Municipal League, presented to the Chamber of Commerce [of Pittsburgh] at its meeting held Feb. 24th, 1916. [1916. Pittsburgh.]

Contents: Municipal home rule.—The commission manager form of city government.—Dayton an example of both.

Toulmin, Harry Aubrey.

352.021 T64

The city manager, a new profession. 1915. Appleton. (National Municipal League series.)

"Bibliography," p.289-298.

Adequately sets forth the details of the city manager form of government as it exists in a score of our cities and shows its actual workings in these communities.

Municipal ownership

See also Government ownership, 351.8

r 352 C74

Concerning municipal ownership; a monthly bulletin, May 1912-July 1916. v.5-v.9, no.7. 1912-16.

None issued July 1909-April 1912.

No more published.

For v.1-4 see preceding catalogue, v.6.

Grant, Arthur Hastings, comp.

r 352 G78a

List of defunct municipal lighting plants. [1913.] Municipal Ownership Pub. Co.

The same. [1913.].....r 352 G78

Binder's title reads "Defunct municipal lighting plants."

Knoop, Douglas.

352 K34

Principles and methods of municipal trading. 1912. Macmillan.

"Bibliographical note," p.389-393.

"The best book that has yet appeared in English on municipal trading, or, as we should say in this country, municipal ownership." *Nation*, 1913.

Its conclusions are that municipal trading cannot be regarded as a desirable institution.

Morgan, Joy E. & Bullock, E. D. comp.

352 M89

Selected articles on municipal ownership. 1911. Wilson. (Debaters' handbook series.)

"Bibliography," p.15-24.

The same.....r 352 M89

City documents and reports

Allegheny, Pa.—Councils.

r 352 A4223a

Rules for conducting business in the select and common councils of the city of Allegheny. 1854. Allegheny.

Allegheny, Pa. Ordinances.

r 352 A4225

Digest of the ordinances of the city of Allegheny and of the acts of Assembly relating thereto, with notes and references to judicial decisions thereon. 1854. Pittsburgh.

The same. 1846. Allegheny.....r 352 A4225a

Allied boards of trade journal; official organ of the boards of trade, chambers of commerce and allied civic bodies of Allegheny county [monthly], 1910. v.1. 1910. Pittsburgh. qr 352 A43

No more published.

Chicago—Civil service commission.

qr 352 C4322

Charts of organization of all departments of the city of Chicago, as in effect Feb. 1912, March 1913. [1912-13.]

Issue for 1913 includes "Outline report of work of the Efficiency division, Civil service commission, 1909-12."

Chicago—Municipal library and statistics bureau.

r 352 C4323

Chicago city manual, 1911-12; prepared by F. A. Eastman. 1911-12.

Continuation of "Chicago statistics," issued by the same bureau (qr 317.7 C43).

Chicago, City Club.

r 352 C4324

Year book (11th), 1916. [1916.]

City Club bulletin, 1911-date. v.4-date. 1911-date.

qr 352 C494

Published by the City Club of Chicago.

Issued irregularly.

Civic Club of Allegheny County.

r 352 C49

Fifteen years of civic history. 1910. [Pittsburgh.]

Resumé of the work for civic betterment initiated and promoted by the club.

Cleveland, Civic League.

r 352 C582

Efficiency series; reports. no.1-3. 1912-14.

Contents: The sheriff's office.—The coroner's office.—The recorder's office.

Beginning with no.3, March 1914, name changed from Municipal Association to Civic League of Cleveland.

Dayton, Ohio.

r 352 D33r

Report of the city of Dayton, 1914-date. [1914]-date.

The report for 1914 is the first report of the city under the Commission-manager charter. It is published by the Bureau of Municipal Research of Dayton.

Dayton, Ohio. Charter.

r 352 D337

Proposed charter for the city of Dayton; prepared and proposed by the Charter commission; election, Tuesday, Aug. 12, 1913 [adopted Aug. 12, 1913. 1913].

Reprinted by the Bureau of Municipal Research, Dayton, Ohio.

Des Moines, Iowa.

r 352 D462

Annual report (4th, 8th) of the city of Des Moines; comp. by the auditor under direction of the superintendent, Department of accounts and finance for the fiscal year ending March 31, 1912, 1916. [1912-16.]

For report for 1908/09 see preceding catalogue, v.6.

Gary, Ind.

r 352 G199

Annual report of the heads of the departments, 1910, 1914. [1911-15.]

Report for 1910 contains a chapter on the history and development of Gary.

Massachusetts—Public records, Commissioner of.

r 352 M45

Report (1st, 11th), 1885, 1898. 1889-99.

For other reports see preceding catalogue, v.6.

Milwaukee—Economy and efficiency bureau.

r 352 M7212

Bulletin; semimonthly, 1911-12. no.1-19. 1911-12.

no.3 wanting.

Publication discontinued with no.19.

New York (state)—Constitutional convention commission. r 352 N2619

City and county government. 1915.

Contents: The relation of the state to the city school system, comp. and analyzed by the Public School League of Buffalo.—Government of the city of Rochester, N. Y.; Government of Monroe county, N. Y. (including town government); Government of Nassau county, N. Y., prepared by the New York Bureau of Municipal Research.

New York (city)—Accounts, Commissioners of. qr 352 N2617

Government of the city of New York; a survey of its organization and functions, prepared for the Constitutional convention, 1915, by the office of the commissioners of accounts and New York Bureau of Municipal Research. 1915.

New York (city)—Chamberlain. qr 352 N2615

Administrative reorganization and constructive work in the government of the city of New York, 1914 [by] Henry Bruère, chamberlain. 1915.

New York (city). Ordinances. qr 352 N2616

Code of ordinances of the city of New York, adopted March 23, 1915, approved March 30, 1915, as amended to July 16, 1915, with index, notations of sources and table of disposition of general ordinances repealed; comp. by Committee on codification of ordinances, Board of aldermen.

New York (city), Academy of Political Science. r 352 N2618

Government of the city of New York; a collection of addresses and discussions presented at a series of 11 lecture-conferences, April 7-30, 1915. 1915.

The same. 1915. (In its Proceedings, v.5, no.3.).....r 305 N26 v.5

Philadelphia, City Club. qr 352 P494

Bulletin, Oct. 21, 1909-13. v.1-6, in 4. 1909-13.

Issued irregularly.

St. Louis. qr 352 S14

Mayor's message, with accompanying documents, to the Municipal assembly for the fiscal year, 1909/10-1914/15. [1911]-15.

For earlier volumes see preceding catalogue, v.6.

St. Louis, Civic League. qr 352 S145c

Civic bulletin; biweekly, Dec. 12, 1910-Dec. 9, 1912. v.1-2. 1910-12.

v.2, 1912, issued irregularly.

In Jan. 1913, this was absorbed by "Public affairs" issued by the Publicity bureau of the Conference of federations.

St. Louis, Civic League. r 352 S145y

Year book, 1911/12-1915/16. 1913-16.

For volumes for 1909-11 see preceding catalogue, v.6.

Pittsburgh

qr 352 H28

The Harpoon; a semi-monthly magazine dedicated to the truth about Pittsburgh's industrial, political and civic life, March 1912-Jan. 1914. v.1-v.5, no.2. [1912-14.] Pittsburgh.

In May 1913, this publication absorbed the "Pittsburgh Saturday critic" and continued its volume numbering. There is therefore no volume 3.

v.4-v.5, no.2, May 9, 1913-Jan. 17, 1914 issued weekly.

No more published.

qr 352 M9672

Municipal news of Pittsburgh [weekly], March 25-June 10, 1911. v.1, no.1-12. 1911. Pittsburgh.

No more published.

New York (city), Bureau of Municipal Research.

r 352 N26c

The city of Pittsburgh, Pennsylvania; report on a survey prepared for the City council, June-July 1913. [Pittsburgh.]

Contains reports on Department of public health, Department of city controller, City council, Department of public works, Department of supplies, Department of collector of delinquent taxes, Civil service commission, Department of public safety, Bureau of police, Bureau of fire, Municipal explosives board, Inspector of employment agencies, Ordinance office and Division of weights and measures.

Pittsburgh.

r 352 P6745m

Municipal year book, 1913-15, city of Pittsburgh [ed. by] J. D. Crawford. [1913-15.] Pittsburgh.

Gives information on the Municipal Pension Association and municipal departments and statistics.

Pittsburgh. Charter. 1901.

r 328.74 P67a 1912/13

Act governing cities of the second class as amended to the year 1911, inclusive. 1912. (In Pittsburgh—Council. Councilmanic hand book, 1912/13, p.43-92.)

The same, as amended to the year [1913], inclusive. 1915. (In Pittsburgh—Council. Councilmanic hand book, 1915, p.52-104.)r 328.74 P67a 1915

For earlier edition see preceding catalogue, v.4.

Pittsburgh—City planning commission.

r 352 P6748

Manual, Dec. 1912.

Pittsburgh. Ordinances.

r 352 P67b5

Ordinances passed by the select and common councils, April 29, 1833-Jan. 1, 1837. 1837.

Title-pages vary.

For volumes for 1849-69 see preceding catalogue, v.1.

r 352 P6746

Pittsburgh, Citizens' Reception Association National Municipal League and American Civic Association Convention.

Civic exhibition (1st), held in the Carnegie Institute galleries, Nov. 16-Dec. 6, 1908. [Pittsburgh.]

Pittsburgh Civic Commission.

qr 352 P6747c

Civic bulletin, Oct. 1911-May 1912. v.1, no.1-6. 1911-12. [Pittsburgh.]

v.1, no.1-6. Two years' work, 1909-11.—How are your taxes spent? report on expenditures of the Department of charities.—Hillside dwellings for workingmen.—The pending subway ordinance.—Tax revision to promote Pittsburgh's progress.—Health inspection cost in five cities.—The subway question.

Pittsburgh Industrial Development Commission.

qr 352 P6749

Pittsburgh; municipal improvements recently completed, under construction and provided for. 1913.

Pittsburgh, Voters' League.

r 352 P6743ar

Argument of A. Leo Weil for the Voters' League on charges against Jos. G. Armstrong, director Department public works, Sept. 30th & Oct. 1st, 1912, before the City council of Pittsburgh.

Stenographic report.

With this is bound "Argument of A. Leo Weil on charges against John M. Morin, director Department public safety, Oct. 4, 1912, before the City council of Pittsburgh."

Pittsburgh, Voters' League.

qr 352 P6743b

Bulletin concerning candidates [for offices in Pittsburgh and Allegheny county], 1902-05, 1909, 1911, 1913-15. v.1-2. [1902-15. Pittsburgh.]

Pittsburgh, Voters' League.

qr 352 P6743bu

Bulletin to members, 1909, 1911-13. [1909-13. Pittsburgh.]

Local finances**Chicago—Civil service commission.**

qr 352.1 C4323

Reports on the budget of educational estimates and expenditures, Board of education, city of Chicago; educational budget prepared by the Efficiency division of the city Civil service commission at the request of Peter Reinberg, president of the Board of education [and others], Feb. 27, 1914 to May 2, 1914. [1914.]

Chicago Bureau of Public Efficiency.

r 352.1 C4322

[Publications], 1911-15. no.1-26. [1911-15.]

no.3, "Street pavement laid in the city of Chicago," is catalogued separately (r 625.8 C43), also no.4, "Electrolysis of water pipes in the city of Chicago" (r 621.332 C43).

Cleveland—City auditor.

qr 352.1 C58

General ledger report (1st), 1912. [1913.]

Huse, Charles Phillips.

352.1 H95

Financial history of Boston, from May 1, 1822 to Jan. 31, 1909. 1916. Harvard University Press. (Harvard economic studies.)

"Bibliography," p.383-385.

Lewis, Nelson Peter.

r 352.1 L67

Paying the bills for city planning; a plea for special assessments for benefit as the most equitable and businesslike solution of the problem. [1912.]

Being a paper presented at the fourth National Conference on City Planning held in Boston, May 27-29, 1912.

Massachusetts—Statistics bureau.

r 352.1 M45a

Annual report (4th-9th) on the statistics of municipal finances, 1909/10-1914/15. 1912-16.

In 1909 name was changed from Labor statistics bureau to Statistics bureau.

For earlier reports see preceding catalogue, v.6.

Massachusetts—Statistics bureau.

r 352.1 M45m

Municipal bulletin, Jan. 1911, July 1915. no.3, 7. 1911-15.

no.7 supersedes no.5-6 which are out of print.

For no.1-2 see preceding catalogue, v.6.

New York (city)—Chamberlain. qr 352.1 N2615
Reorganization of the office of chamberlain, 1914, by Henry Bruère, chamberlain of the city of New York. [1915.]

New York (city)—Taxation committee. qr 352.1 N2616
Excess condemnation; a report of the committee on taxation, with a report prepared by H. S. Swan for the National Municipal League. 1915.

New York (city), Bureau of Municipal Research. 352.1 N26
Handbook of municipal accounting; prepared by the Metz fund from descriptive and critical data collected, and constructive recommendations made. 1913. Appleton. (Metz fund handbooks of city business methods.)
Summarizes the underlying principles of the system of bookkeeping installed during Mr Metz's controllership.

New York (city), Bureau of Municipal Research. r 352.1 N2612ha
Have you all the information needed for financial and administrative judgment? 1911.
Published by the National fund for promoting efficient municipal accounting and reporting, May 1911, Bureau of Municipal Research, New York.

New York (city), Bureau of Municipal Research. r 352.1 N2612h
How should public budgets be made? how budgets have been made; how budgets are made; how budgets should be made; 14 stages in budget making. 1909.

New York (city), Bureau of Municipal Research. r 352.1 N2612s
Six years of municipal research for greater New York; record for 1906-11. 1912.

Perrin, John William. qr 352.1 P44
History of the Cleveland sinking fund of 1862. 1914. Privately printed.

Pittsburgh—Controller. r 352.1 P6742s
Schedule of commodities, services, benefits and claims, alphabetically listed and classified to conform with standard accounts, Feb. 1st, 1912.

Pittsburgh—Controller. r 352.1 P6742st
Standard code classification of expenditures, May 1st, 1912. [1912. Pittsburgh.]

Pittsburgh, Chamber of Commerce. r 352.1 P6745
Pittsburgh's taxation; city, county, education; addresses. [1914. Pittsburgh.]

Contents: "The city budget;" an address by Robert Garland to the Chamber of Commerce, Dec. 1st, 1914.—The preparation of a budget for Allegheny county; an address by R. J. Cunningham to the Chamber of Commerce, Dec. 8th, 1914.—Taxation and the public schools; an address by N. R. Criss to the Chamber of Commerce, Dec. 15th, 1914.

United States—Census bureau. r 352.1 U25c
Comparative financial statistics of cities under council and commission government, 1913 and 1915. 1916.

Wisconsin—Tax commission.

r 352.1 W81

How to assess property in cities and rural towns; practical suggestions by H. V. Cowles and J. H. Leenhouts. 1914.

Contents: Suggestions to city assessors, by H. V. Cowles.—A plan of assessment for rural towns, by J. H. Leenhouts.

Police

Chicago—Civil service commission.

qr 352.2 C43

Final report police investigation; inquiry conducted by authority of C. H. Harrison, mayor, Sept. 5, 1911 to March 7, 1912; details of vice investigation, departmental analysis, reorganization plan, conclusions and recommendations. [1912.]

Corning, Eva L.

r 352.2 C82

Women police service; history of the movement, stories of human interest. [1915.]

Author was one of two policewomen appointed in Topeka in 1913. Her pamphlet shows the value of such officers to any city as a preventive of crime and disorder.

Fosdick, Raymond Blaine.

352.2 F79

European police systems. 1915. Century. (New York (city), Bureau of Social Hygiene. Publications.)

"Bibliography," p.409-420.

"Sets forth the police organization, functions, activities, merits or failings as the case may be, of the principal cities of the Old World. Naturally he deals more at length with London, Paris, Berlin and Vienna." *Survey*, 1915.

New York (city)—Police department.

qr 352.2 N261

Annual report of the police commissioner for the year ending Dec. 31, 1912-15. [1913-16.]

For reports for 1907-10 see preceding catalogue, v.6.

Public health

See also Public health, 614

Denver—Social welfare department.

r 352.4 D43

Annual report (1st) of the Social welfare department of the city and county of Denver, 1913. [1914.]

Contains reports of the Department of health, Commission of charity and correction, county superintendent of schools, coroner, market master, light inspector and Public library.

Jameson, Robert Mixon.

r 352.4 J16

Model health code for Texas cities. 1915. University of Texas. (Texas University. Bulletin; municipal research series, no.8.)

"Select list of references on abattoirs, markets, marketing and distribution of food products," p.81-91.

Pennsylvania. Statutes.

r 352.4 P39c

Compilation of acts of Assembly of Pennsylvania relative to the state Department of health, local boards of health, the purity of the water of the state and other laws for the prevention of communicable disease and the treatment of tuberculosis. 1911.

Published by authority of the Department of health.

Pittsburgh—Health department.**r 352.4 P67a**

Annual report for the year 1907, 1910-1911/12. 1909-12. Pittsburgh.

The same, 1909-13. 1910-[14?]. (In Pittsburgh. Annual reports of the executive departments, 1909/10-1913/14.) **r 352 P6745**

No reports were issued 1900-06, 1908. In report for 1907 statistical tables are given for 1900-06.

May 1, 1909 the Bureau of health was withdrawn from the Department of public safety and continued as the Department of public health. It includes the following bureaus: infectious diseases, sanitation, food inspection.

For earlier reports see preceding catalogue, v.1, 4.

United States—Census bureau.**r 352.4 U25**

Uniform accounts as a basis for standard forms for reporting financial and other statistics of health departments, by L. G. Powers. 1912.

Public works**Allegheny, Pa.—City engineer.****r 352.5 A422**

Annual report, 1875.

The same, 1869, 1872-74, 1876-1890/91. 1870-91. Pittsburgh. (In Allegheny, Pa. Municipal reports, 1869, 1872-74, 1876-1890/91.)... **r 352 A42****Chicago—Public works, Board of.****r 352.5 C432**

Annual report (9th-10th), 1869/70-1870/71. 1870-71.

For later reports see Annual report, 1876, 1897, 1899-date (r 352.5 C43) of the Chicago department of public works, which superseded this board in 1876.

Chicago—Public works department.**r 352.5 C43**

Annual report (1st), 1876. 1877.

For later reports see earlier volumes of this catalogue.

Philadelphia—Public works department.**r 352.5 P49**

Report, 1914.

Report for 1914 title reads "Plain talk."

Philadelphia—Water bureau.**r 352 P49**

Annual report (98th, 100th, 102d, 104th-106th) for the year 1899, 1901, 1903, 1905-07. 1899-1908. (In Philadelphia. Annual message of mayor, with annual reports of [city departments].)

The same (71st), 1872. 1872. (In Reports on water supply, 1866-75.) **r 628.1 R35**

For other reports see preceding catalogue, v.4.

Pittsburgh—Public works department.**r 352.5 P67**

Annual report of the department for 1899-1908/09. 1899-[1909].

Report for 1901/02 has not been printed.

The same, 1909/10-date. 1910-date. (In Pittsburgh. Annual reports of the executive departments, 1909/10-date.) **r 352 P6745**

Includes reports of the following bureaus: water, construction, filtration, water assessments, parks, highways and sewers, surveys, viewiers, light, city property.

For reports for 1889-98 see preceding catalogue, v.1.

Streets**Chicago—Civil service commission.****qr 352.7 C432**

Report on appropriations and expenditures, Bureau of streets, Department of public works, city of Chicago; inquiry conducted at request of the committee on finance of the city council and the special

Chicago—Civil service commission—*continued*. qr 352.7 C432
commission regarding ward appropriations, July 15–Nov. 15, 1912; uniform standards and percentages for ward estimates and appropriations. [1912.]

Chicago—Civil service commission. qr 352.7 C432r

Reports on the Bureau of streets, Department of public works, city of Chicago; investigations conducted at the order of the city council, April 21–Oct. 15, 1913. [1913.]

Chicago—Lake shore reclamation commission. r 352.7 C4322

Report to the mayor and the city council, 1912. [1912.]

A report of the proceedings of the commission in reference to the acquisition, for the use of the public, of that portion of the waterfront of Lake Michigan between Jackson park and Grant park, in the city of Chicago.

Milwaukee—Municipal research bureau. r 352.7 M72

Efficiency and economy in municipal work by modern type of equipment. 1915.

Discussion of new and improved methods of street sanitation, as compared with the methods used in 1914 and 1915.

Philadelphia—Highways and street cleaning, Bureau of. r 352.7 P49

[Highways; a problem in municipal housekeeping; report for 1914. 1915.]

Wallis, Rolland S. r 352.7 W18

Street-name signs. 1916. (Iowa State College of Agriculture and the Mechanic Arts—Engineering extension department. Bulletin 20.)

Public utilities

For Evaluation of public utilities, see 658.1

American Academy of Political and Social Science. 352.8 A51

Public policies as to municipal utilities. 1915.

v.57, Jan. 1915, of the "Annals of the American Academy of Political and Social Science."

The same. 1915. (In American Academy of Political and Social Science. Annals, v.57.).....r 306 A51 v.57

Anderson, William, b. 1888. r 352.8 A55

Work of public service commissions, with special reference to the New York commissions. 1913. (Minnesota University. Current problems, no.1.)

"Bibliography," p.42–44.

Thesis for A. B., University of Minnesota.

District of Columbia—Public utilities commission. r 352.8 D63

Annual report (1st–2d), 1913–14. 1914–15.

Foote, Allen Ripley, comp. r 352.8 F74

Regulation of public utilities; a comparison of the New York and the Wisconsin public utilities bills. 1911. Heer Printing Co.

Issued by the legislative reference department of the Ohio State Library.

"Public utilities commissions; select list of references," p.34–36.

Gesell, Gerhard A. *comp.* r 352.8 G33
 Minnesota public utility rates, gas-electric-water; comp. in the Municipal reference bureau of the General extension division [of the University of Minnesota]. 1914. (Minnesota University. Current problems, no.3.)

Holmes, Frederick Lionel. 352.8 H73
 Regulation of railroads and public utilities in Wisconsin. 1915. (Appleton's railway series.)

Study of the work of the Wisconsin railroad commission.

Author was a member of the legislature at the time of the creation of the commission, in 1905, and served as chairman of the Assembly committee on transportation. He presents the important facts in the development of state regulation in Wisconsin; analyzes the chief problems confronting this system of control, and measures the accomplishments, industrial and political.

King, Clyde Lyndon, ed. 352.8 K26
 Regulation of municipal utilities. 1912. Appleton. (National Municipal League series.)

Reprinted, in part, from the "Proceedings" of the National Municipal League.

"Selected bibliography," p.387-391.

"Treats concisely and clearly of commissions of different states, and the work done by city commissions. The chapters on franchise essentials and on the elements of a constructive franchise policy discuss matters with which nearly every small city has to deal, and are of immediate interest and value. Suggestions for model franchises are given. Though showing no lack of unity, the chapters are by different authorities and embody the more important papers presented to the National Municipal League since its first meeting in 1894." *A. L. A. booklist*, 1912.

National Civic Federation. r 352.8 N15

Commission regulation of public utilities; a compilation and analysis of laws of 43 states and of the Federal government for the regulation by central commissions of railroads and other public utilities. 1913.

Though necessarily narrow in scope, the ultimate value of the book for general use has prompted liberal treatment of most topics, and the analysis of laws is virtually complete. *Condensed from Railway age gazette*, 1913.

Ohio. Statutes. r 352.8 O18

Compilation of the laws of Ohio affecting the regulation of railroads and public utilities. 1913.

Prepared under the direction of the Public service commission of Ohio.

Pennsylvania—Public service commission. r 352.8 P39

Annual report (1st-date), July 27, 1913-date. 1915-date.

Supersedes the State railroad commission. For earlier reports on railroads in Pennsylvania see Pennsylvania—State railroad commission. Annual report (r 385 P3994).

Pennsylvania—Public service commission. r 352.8 P39b

Bulletin. no.1-date. 1915-date.

Pennsylvania—Public service commission. r 352.8 P39c

Circular. no.1-2, 5, 7-8, 9A-12A. 1913-14.

Roemer, John H. r 352.8 R59

Certain important provisions of the public utilities law of Wisconsin and the results of their operation. [1912?] Trans-Mississippi Commercial Congress.

St. Louis—Public service commission. r 352.8 S14

Should public service properties be depreciated to obtain fair value in rate or regulation cases? by J. E. Allison; report Sept. 11, 1912. 1912.

County government

Conference for Better County Government in New York State. r 352.98 C74

Proceedings of the conference (1st), Nov. 13-14, 1914. [1914.]

New York (state)—Constitutional convention commission. r 352.98 N261

County government. 4pts. in iv. 1915.

Contents: Papers on special topics.—Organization of Westchester county.—Expenses of education.—County finance.

New York (city)—Accounts, Commissioners of. qr 352.98 N26

Study of county government within the city of New York and a plan for its reorganization; prepared for the Constitutional convention. 1915, by the commissioner of accounts and the city chamberlain, New York city. [1915.]

New York (city)—Public library. Astor, Lenox and Tilden foundations. qr 016.35298 N26

County government, including county publications; references to materials in the library. 1915.

353 United States government

For Constitutional law and history of the United States, see 342.7

Aaron, Eugene Murray. qr 353 A11

Our Federal government; a graphic presentation of the history, development and methods of the United States Federal government in all its departments, bureaus, divisions, offices and special commissions throughout the legislative, executive and judicial branches of our national administration, containing much varied statistical information [written] with the assistance of numerous Federal authorities. 1912. Cram.

Cleveland, Grover. 353 C58

The independence of the executive. 1913. Princeton University Press. (Stafford Little lectures.)

The same. 1904. Century. (In his Presidential problems, p.3-76.) 304 C58

Addresses delivered by Grover Cleveland in April, 1900, inaugurating the lectureship founded at Princeton University in his honor.

Du Puy, William Atherton. j 353 D93

Uncle Sam's modern miracles; his gigantic tasks that benefit humanity. 1914. Stokes.

Partial contents: Conquering contagion.—Revealing weather secrets.—Transforming Western deserts.—Shackling the Mississippi.—Helping the farmer's wife.—Rejuvenating Porto Rico.—Remaking the "poor whites."—Getting the land to the people.—Blanketing the world with wireless.—Daily mail in the country.—Producing census facts.—Teaching sanitation to the world.

Haskin, Frederic J.

353 H33

The American government. 1911. Privately printed.

Contents: The president.—The State department.—The Treasury department.—The army.—The navy.—The postal service.—The Interior department.—The Patent office.—The Geological survey.—The Department of agriculture.—The Weather bureau.—Department of commerce and labor.—The Census bureau.—The Bureau of standards.—The public health.—The Smithsonian Institution.—The Panama canal.—The Interstate commerce commission.—Our insular possessions.—How Congress legislates.—The House of representatives.—The Senate.—The Library of Congress.—The government printing office.—The civil service.—The Supreme court.—Other Federal courts.—The Department of justice.—The Pan American Union.—The national capital.

Survey of the actual workings of the several departments of the Federal government.

Hill, Mabel.

353 H55

Teaching of civics. 1914. Houghton. (Riverside educational monographs.)

Contains bibliographies.

Twenty-four suggestive lessons in civics, based on the author's experience as a teacher of history and civics in the Massachusetts State Normal School, Lowell.

Kelly, Melville Clyde.

r 353 K17

Machine made legislation. 1912. Privately printed. [Pittsburgh.]

Indictment of lawmaking and machine rule in Pennsylvania.

Painter, Estella E. comp.

353 P16

Selected articles on the six-year presidential term. 1913. Wilson. (Debaters' handbook series; abridged.)

"Bibliography," p.5-8.

The same r 353 P16**Taft, William Howard.**

353 T13

Our chief magistrate and his powers. 1916. Columbia University Press. (Columbia University lectures, 1915-16.)

Some of the chapters in this book have already been printed under the title "The presidency."

Taft, William Howard.

353 T13P

The presidency; its duties, its powers, its opportunities and its limitations; three lectures. 1916. Scribner. (Virginia University. Barbour-Page foundation.)

These three lectures are also incorporated in the author's "Our chief magistrate and his powers."

Wills, John Ballard, pub.

r 353 W76

Our presidents, vice presidents and cabinets, from Washington to the present time [1912]. 1912. Pittsburgh.

Lists each president's cabinet and tabulates the popular and the electoral vote for president since the war. Lists also the vice-presidents who have died in office or resigned.

President's cabinet

Hinsdale, Mary Louise.

353-05 H57

History of the president's cabinet. 1911. Wahr. (Michigan University; historical studies.)

"Bibliography," p.329-339.

History of its origin and of successive cabinets from Washington's administration to Taft's, with additional chapters on the principles of cabinet making and the relation of the cabinet to Congress and to the president.

Learned, Henry Barrett.

353.05 L45

The president's cabinet; studies in the origin, formation and structure of an American institution. 1912. Yale University Press.

"List of authorities," p.404-427.

"Almost exclusively a study of the formal development of the Cabinet, as exhibited in the origin and functions of the several executive departments...On the larger political or constitutional aspects of his subject Mr. Learned does not dwell, nor is he concerned with Cabinet practices or personnel." *Nation*, 1912.

United States—Senate.

r 353.05 U25

Privilege of the floor to cabinet officers; reports made to the Congress of the United States relative to measures providing that heads of the executive departments occupy seats on the floor of the two houses of Congress. 1913. (63d cong. Special sess. Senate. Doc. no.4.)

Department of state

Hunt, Gaillard.

r 353.1 H93

Department of state of the United States; its history and functions. 1914. Yale University Press.

"Bibliographical note," p.438-439.

United States—State department.

r 353.1 U25

Register, 1916.

For earlier volumes see preceding catalogue, v.1, 6.

Treasury department. Public health

Hotchkiss, Willard Eugene.

353.2 H82

The judicial work of the comptroller of the treasury as compared with similar functions in the governments of France and Germany; a study in administrative law. 1911. Cornell University. (Cornell studies in history and political science, v.3.)

"Bibliography," p.143-146.

United States—Engraving and printing bureau.

r 353.2 U2532

Annual report of the director for the fiscal year ended June 30, 1912-16. 1912-16.

For earlier reports see preceding catalogue, v.6.

United States—Public health service.

r 353.2 U2534

Regulations for the government of the United States public health service, approved March 4, 1913. 1913.

United States—Public health service.

r 353.2 U2534r

Regulations governing the uniforms of officers and employees, 1914. 1914.

United States—Solicitor of the treasury.

r 353.2 U2533

Digest of the opinions and briefs of the solicitor of the treasury, Jan. 1, 1911 to Dec. 31, 1912; prepared by R. J. Mawhinney. 1913.

For volume for 1880-1910 see preceding catalogue, v.6.

Post-office department

United States—Post-office department. r 353.4 U25pos

Postal laws and regulations applicable to post office clerks and carriers. 1914.

United States—Post-office department. r 353.4 U25p5

Postal laws and regulations of the United States. 1913. (62d cong. 3d sess. House. Doc. no.935, v.38.)

United States—Post-office department. r 353.4 U25p0

Postal laws and regulations pertaining to the second class of mail matter, corrected to July 1, 1914. 1914.

United States—Postal commission, 1911. r 353.4 U2532

Report of the commission on second-class mail matter, appointed pursuant to the joint resolution of Congress, March 4, 1911. 1912. (62d cong. 2d sess. House. Doc. no.559, v.36.)

p.51-159 of "Message of the President transmitting the Annual report of the post-master general, 1911, and the Report of the commission on second-class mail matter."

Department of justice

Beard, Charles Austin. 353.5 B34

The Supreme court and the constitution. 1912. Macmillan.

Contents: Attacks upon judicial control.—The Constitutional convention of 1787 and judicial control.—Judicial control before the ratifying conventions.—The spirit of the constitution.—The supporters of the new constitution.—John Marshall and the fathers.—*Marbury v. Madison*.

Myers, Gustavus. 353.5 M99

History of the Supreme court of the United States. 1912. Kerr.

The plain purpose of the author is to condemn the Supreme court as a tool of the interests. Though somewhat sweeping in its assertions and conclusions, it contains some just criticism of the selfish and partisan acts of this over-lauded tribunal and is valuable because of its bold presentation of evidence seldom used and its short histories of judges, party affiliations and business connections. *Condensed from American journal of sociology, 1913.*

Ransom, William Lynn. 353.5 R19

Majority rule and the judiciary; an examination of current proposals for constitutional change affecting the relation of courts to legislation, with an introduction by Theodore Roosevelt. 1912. Scribner.

Mr Ransom devotes chief attention to the proposal popularly known as the recall of judicial proceedings.

Roe, Gilbert Ernstine. 353.5 R59

Our judicial oligarchy, with an introduction by R. M. LaFollette. 1912. Huebsch.

"Mr. Roe has no faith in our common law or in our judges. These judges, following the example of their English forebears, 'habitually think in the terms of the rich and powerful. This process of thinking has built up a system of law barbarous in its injustice and inequality.' The only part of our law worthy of commendation is that found in 'progressive legislation,' and much of that has been destroyed by the courts." *Nation, 1913.*

United States—Justice department. r 353.5 U2532i

Instructions to United States marshals, attorneys, clerks and commissioners (not applicable to officials in Alaska, Porto Rico, the Canal Zone or the Philippine islands), June 1, 1916. 1916.

United States—Justice department. r 353.5 U2532
 Register of the Department of justice, 1912-16. [v.21-24.] 1913-16.
 For v.4, 17-20 see preceding catalogue, v.1, 6.

United States. Statutes. qr 353.5 U2534
 Judicial code of the United States in force Jan. 1, 1912; act of
 March 3, 1911 (including all amendments made prior to March 4, 1913).
 1913. (62d cong. 3d sess. Senate. Doc. no.1144, v.21.)

United States—Supreme court. r 353.5 U2533
 Rules of the Supreme court of the United States, promulgated Dec.
 22, 1911. 1912.

War department

Heitman, Francis Bernard, *comp.* qr 353.6 H42h2
 Historical register of officers of the Continental army. 1914. Rare
 Book Shop Pub. Co.

United States—Judge advocate general. r 353.6 U2534a
 Digest of opinions of the judge advocate general of the army, 1912
 [comp. by C. R. Howland]. 1912.

Navy department

United States—Coast guard. r 353.7 U2537
 Register of the officers, vessels and stations of the United States
 coast-guard, July 1916. 1916.

United States—Naval affairs committee, Senate. r 353.7 U2532
 Navy yearbook, 1915; embracing all acts authorizing the construc-
 tion of ships of the "new navy;" a résumé of annual naval appropriation
 laws from 1883 to 1916, inclusive, with tables showing present naval
 strength in ships and personnel, and cost of maintaining the navy of
 the United States, also statistics of foreign navies. 1915. (64th cong.
 1st sess. Senate. Doc. no.3, v.3.)

United States—Naval militia affairs division. r 353.7 U2533
 Register of the naval militia of the states, territories and of the
 District of Columbia, Jan. 1, 1915-17. 1915-17.

United States—Navigation bureau. (Navy department.) r 353.7 U2534
 List and station of the commissioned and warrant officers of the
 navy and of the marine corps, 1907. 1907.
 For volumes for 1898-1904, 1906 see preceding catalogue, v.1, 4.

United States—Navy department. r 353.7 U25r
 Register of the commissioned and warrant officers of the navy and
 of the marine corps, 1837-39, 1842, 1845-47, 1853, 1856. 1837-56.
 For later volumes see preceding catalogue, v.1.

United States—Navy department. r 353.7 U25re
 Register of the naval militia of the United States, 1915. 1915.

Department of commerce

United States—Coast and geodetic survey. r 353.8 U2533

Regulations and instructions for the government of the United States coast and geodetic survey [Jan. 1913]. 1913.

——Supplement, Jan. 1913–Dec. 1916. 1916–17....r 353.8 U2533a

United States—Commerce department. r 353.8 U2534

Department of commerce; condensed history, duties and practical operation of the department and its several bureaus and offices, together with laws relating specifically thereto, July 1, 1913. 1913.

United States—Commerce department. r 353.8 U25d

Department of commerce; Panama-Pacific International Exposition edition, 1915. 1915.

United States—Commerce department. r 353.8 U25l

List of publications of the Department of commerce available for distribution, Oct. 2, 1916. 1916.

United States—Commerce department. r 353.8 U2534r

Reports, 1913–date; report of the secretary of commerce and reports of bureaus. 1914–date.

Department was created by act of March 4, 1913. Earlier reports will be found in the Annual report of the Commerce and labor department (r 353.8 U253).

Department of agriculture

United States—Agriculture, Department of. r 353.8 U2535ad

Administrative regulations of the U. S. department of agriculture, effective July 1, 1914. 1914.

United States—Agriculture, Department of. r 353.8 U2535

Fiscal regulations of the U. S. department of agriculture, effective Feb. 1, 1915. 1915.

United States—Publications division. (Department of agriculture.) r 353.8 U2537

Organization of the Department of agriculture, 1913. [1913.]

Earlier editions were published as Circular no. 1 of the Division of publications (r 630.6 U2537).

With this is bound "Relation of the United States department of agriculture to the agricultural colleges and experiment stations," by B. T. Galloway.

United States. Statutes. r 353.8 U2536

Laws applicable to the United States department of agriculture [and first supplement]; comp. by O. H. Gates. 1913.

Department of labor

United States—Labor department. r 353.8 U2538

Regulations of the Department of labor, in effect Oct. 15, 1915. 1915.

State government

Colorado—Adjutant-general's office. r 353.9 C722

Military occupation of the coal strike zone of Colorado by the Colorado national guard, 1913-14; report of the commanding general to the governor for the use of the Congressional committee exhibiting an account of the military occupation to the time of the first withdrawal of the troops in April 1914. [1914.]

With this is bound "Ludlow; the report of the special board of officers appointed by the governor of Colorado to investigate and determine the facts with reference to the armed conflict between the Colorado national guard and certain persons engaged in the coal mining strike at Ludlow, Col., April 20, 1914."

Colorado State Federation of Labor. r 353.9 C72

Militarism in Colorado; report of the committee appointed at the suggestion of the governor of Colorado to investigate the conduct of the Colorado national guard during the coal strike of 1913-1914. 1914.

Governors' Conference. r 353.9 G75

Proceedings of the meeting of the governors of the states of the Union (1st-8th), 1908-15. 1908-15.

Proceedings of the 1st meeting catalogued separately (qr 351.711 C74).

Howe, Frederic Clemson. 353.9 H85

Wisconsin; an experiment in democracy. 1912. Scribner.

"Bibliography of important laws and literature on Wisconsin," p.193-196.

"The direct primary, the regulation of railway rates, employer's liability, state insurance, tax equalization, and extension of the opportunities of the University are among the 'experiments in democracy' of these twenty years. The unique feature of Wisconsin politics and administration is the part which the University plays." *Nation*, 1912.

Illinois—Efficiency and economy committee. r 353.9 I22

Report. 1915.

Appendixes: Revenue and finance administration, by J. A. Fairlie.—The accounts of the state of Illinois, by G. E. Frazer.—Accounting administration for correctional institutions, by Spurgeon Bell.—Charitable and correctional institutions, by J. W. Garner.—Educational administration, by J. M. Mathews.—Administration of labor and mining legislation, by W. F. Dodd.—Public administration in relation to agriculture and allied interests, by J. W. Garner.—Public health administration, by J. M. Mathews.—Supervision of corporations and related business, by M. H. Robinson.—State administration of public works, parks and buildings, by C. O. Gardner.—Military department of the state of Illinois, by Quincy Wright.—Civil service laws, by A. C. Hanford.—Secretary of state and law offices.—Economy and efficiency commissions in other states, by A. C. Hanford.—Fire insurance rates in Illinois, by M. H. Robinson.—Comparative statement of appropriations; comp. by T. P. Waters.

Indiana. r 353.9 I242d

[Documentary journal; reports], 1908/09-1909/10. 2v. 1910-11.

v.1. Bureau of public printing.—Auditor of state.—Tax commissioners' proceedings.—Secretary of state.—Treasurer of state.—Tax commissioners' report.—Labor commission.—Adjutant-general.—State library.

v.2. Bureau of statistics.—Accounting board.—Department of inspection.—Indiana state normal school.—Purdue University.—State soldiers' home.—School for the blind.—School for the deaf.—School for feeble-minded youth.—Indiana girls' school.—Central hospital for insane.—Northern hospital for insane.—Southern hospital for insane.—Eastern hospital for insane.—Southeastern hospital for insane.—Epileptic village.—State prison.—Woman's prison.—Farmers' institutes.

Some of the reports included are annual, some biennial.

- Indiana.** r 353.9 I242
 [Documentary journal; reports of the officers of state], 1910, 1912.
 1910-[13].

For volume for 1907 see preceding catalogue, v.6.

- McCarthy, Charles.** 353.9 M128

The Wisconsin idea. 1912. Macmillan.

"Bibliography," p.307-317.

Describes the laws that have attracted the attention of the country to Wisconsin and the method of their making. Author is (1912) chief of the Wisconsin legislative reference department and his free use of the language of the acts passed by the Legislature gives the book the weight of authority.

- Maine—Attorney-general.** r 353.9 M266

Report of the attorney-general for the two years ending Nov. 30, 1912-16. 1912-16.

For volumes for 1906/08-1908/10 see preceding catalogue, v.6.

- Mercer, James Kazerta.** qr 353.9 M63

Ohio legislative history, 1909-13; administration of Judson Harmon, governor of Ohio, 1909-12; review of fourth Ohio constitutional convention, by contributing members, and amendments adopted by the people in 1912. [1914.] Miller.

- New Jersey—Governor.** (Woodrow Wilson.) r 353.9 N2615

Inaugural address of Woodrow Wilson, governor of New Jersey, Trenton, N. J., Jan. 17, 1911. 1911.

- New York (state)—Efficiency and economy department.** r 353.9 N2616

Government of the state of New York; a description of its organization and functions, prepared for the New York state constitutional convention commission by the New York state department of efficiency and economy and New York Bureau of Municipal Research, Jan. 1, 1915. 1915.

- Ohio—Adjutant-general.** r 353.9 O183

Annual report to the governor for the fiscal year ending Nov. 15, 1910-13. 1911-14.

For reports for 1905/06-1908/09 see preceding catalogue, v.6.

- Ohio—State department.** r 353.9 O18a

Statistical report of the secretary of state to the governor and General assembly, 1912/13-1914/15. 1913-16.

Title varies, reading "Annual report, including the statistical report," and "Annual statistical report."

For earlier reports see earlier volumes of this catalogue.

- Ohio—State library.** r 353.9 O1832

Organic law of Ohio and proposed amendments; or, Helps to constitution makers; comp. by J. H. Newman. 1913.

- Pennsylvania—Governor.** (M. G. Brumbaugh.) r 353.9 P39ib

Inaugural address of Martin G. Brumbaugh, delivered at Harrisburg, Jan. 19, 1915, on the occasion of his inauguration as governor of Pennsylvania. 1915.

- Pennsylvania**—Governor. (M. G. Brumbaugh.) r 353.9 P39vb
 Vetoes by the governor of bills and resolutions passed by the legislature, session of 1915. 1915.
- Pennsylvania**—Governor. (J. K. Tener.) r 353.9 P39mt
 Message to the General assembly, Jan. 7, 1913. 1913.
 Message as to the financial condition of the commonwealth.
- Pennsylvania**—Governor. (J. K. Tener.) r 353.9 P39ms
 Message to the General assembly, Jan. 5, 1915. 1915.
- Pennsylvania**—Governor. (J. K. Tener.) r 353.9 P39vet
 Vetoes by the governor of bills passed by the legislature, session of 1911-13. 1911-13.
- Pennsylvania**—Secretary of the commonwealth. r 353.9 P3994
 Biennial report to the governor, 1908/10-1912/14. 1910-14.
 For earlier reports see preceding catalogue, v.1, 6.
- Philips, George Morris.** j 353 M94a
 Elements of civil government in the commonwealth of Pennsylvania, with a brief outline of the political history of the state; designed for use as a text-book in public and private schools, and for supplementary reading. 1898. Silver.
 Bound with Mowry, W. A. "Elements of civil government."
- Shimmell, Lewis Slifer.** 353.9 S55g
 Government of Pennsylvania. 1911. Merrill.
 With this is bound his "Government of the United States."
The same. 1908.....j 353.9 S55
 Illustrated text-book.

Pennsylvania militia

- Clarke, William Packer.** qr 353.9748 P39
 Official history of the militia and the National guard of the state of Pennsylvania from the earliest period of record to the present time [1909]. v.1-2. 1909-12. Hendler.
 "Table of authorities," v.1, p.5; v.2, p.3.
- Latta, James William.** qr 353.9748 P39ar
 History of the First regiment infantry, National guard of Pennsylvania (Gray reserves), 1861-1911. 1912. Lippincott.

354 Foreign governments

- Fortescue, John William.** 354.42 F79
 History of the British army [to 1870]. v.7 in 2. 1912. Macmillan.
 v.7, pt.1. 1809-1810.
 v.7, pt.2. Maps and plans.
 For v.1-6 see preceding catalogue, v.1, 6.
- Poincaré, Raymond.** 354.44 P74
 How France is governed; tr. by Bernard Miall. 1913. Unwin.
Contents: Civic rights and duties.—The commune.—The department.—The state.—National sovereignty.—The constitution.—The president of the republic.—The ministers.—The chambers.—Justice.—Public education.—The budget and taxation.—Military service.
 "In this book it is shown how the work of the State is done in France—shown with a breadth of vision and a simplicity of description which make the reader realize the

Poincaré, Raymond—*continued*.

354-44 P74

changes out of which the present system has grown; for M. Poincaré is at once historical and philosophical, as well as expository and descriptive, in his method... Mr. Miall has performed his task as translator with real distinction." *Outlook* (London), 1913.

Lybyer, Albert Howe.

354-496 Lg8

Government of the Ottoman empire in the time of Suleiman the Magnificent. 1913. Harvard University Press. (Harvard historical studies.)

Appendices: The second book of the affairs of the Turks, written in 1534, supposedly by Benedetto Ramberti; tr. from the Italian.—Pamphlet of Junis Bey and Alvise Gritti, printed in 1537; presented in the original Italian.—Incomplete table of contents of the Kanun-Nameh; or, Collection of edicts of Suleiman the Magnificent as arranged by The Mufti Ebu Su'ud; tr. from the Turkish.—The government of the Mongul empire in India.

"Bibliographical notes," p.305-330.

Study of the structure of the Turkish government at the time of its greatest power and prestige, during the first half of the 16th century.

Durham, John George Lambton, earl of.

354-71 D94

Report on the affairs of British North America; ed. with an introduction by Sir C. P. Lucas. 3v. 1912. Clarendon Press.

v.1. Introduction.

v.2. Text of the report.

v.3. Appendixes.

"This report, one of the greatest state papers in the English language, laid down the principles, then unrecognized, which have guided British colonial policy ever since... With regard to the future government of British North America, Durham had at first inclined towards a federation of all the colonies on that continent, and this aim, afterwards achieved, remained in his eyes an ideal to be striven for; but as a more immediately practical policy he advised the legislative union of Upper and Lower Canada... He further urged the creation of an executive council responsible to the colonial legislature; he advised state-aided emigration on the broadest possible scale, and the formation of an intercolonial railway for the development of the whole country." *Encyclopædia Britannica*, 1910-11.

355 Military science

For United States war department, see 353.6

For Military engineering, see 623

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International military digest annual; a review of the current literature of military science, cumulated from the monthly issues of the International military digest, 1915-date. 1916-date. Cumulative Digest Corporation.

Covers all branches of military service and presents concise readable summaries of articles from standard military periodicals, both American and foreign. It is a valuable index to references on the European war.

New York (city)—Public library. Astor, Lenox

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and Tilden foundations.

Economic and social aspects of war; a selected list of references; comp. by W. N. Seaver. 1915.

Contents: Bibliography.—Army and navy maintenance.—General economic aspects of war.—Loss of life in war.—Individual wars (except American).—The United States and war.

General works

Altham, Edward Altham. 355 A46

Principles of war, historically illustrated. v.1. 1914. Macmillan.
(Military text-books.)

—Maps. v.1. 1914. Macmillan.....355 A46a

"Gen. Altham's book...is frankly one of preparation for war...He has used as headings of his most important chapters certain extracts from the British Field Service Regulations, and then drives home the principles therein stated or implied, by a discussion based chiefly on the important wars of the last half century or so; wherever possible, he closes his discussion by an analysis of the latest of these, the Russo-Japanese." *Nation*, 1914.

v.1 contains maps of Manchuria showing military positions in the Russo-Japanese campaign.

Atteridge, Andrew Hilliard. 355 A88

Famous land fights. [1914.] Methuen.

Companion volume to J. R. Hale's "Famous sea fights." Describes in familiar style the development of warfare from early tribal fights to the events of the Balkan war.

Bernhardi, Friedrich von. 355 B45

How Germany makes war. 1914. Doran.

Being a condensed version of his "On war of to-day."

Discusses the nature and conduct of modern military and naval warfare, particularly German methods and resources. The author's chief concern is to direct his fellow-countrymen in the strategic measures which he deems necessary in case of war.

Bernhardi, Friedrich von. 355 B450

On war of to-day; tr. by Karl von Donat. 2v. 1914. Dodd.

v.1. Principles and elements of modern war.

v.2. Combat and conduct of war.

Complete text of his exhaustive work on military science under modern conditions and with modern armaments. As the exponent of militarism and expansion, the author has had a profound influence on the policy and the thought of modern Germany.

Johnston, Robert Matteson. 355 J36

Arms and the race; the foundations of army reform. 1915. Century.

The same.....r 355 J36

Contents: Armies in the 18th century.—The art of war.—The national army.—National military policies.—Kruppism and disarmament.—Europe, Asia, America.—Military experiences of the United States.—Our national defense policy.—Organization.

r 355 J46

Journal of the Military Service Institution of the United States; general index, v.1-49, 1880-1911. 2v.

For volumes of journal see preceding catalogue, v.1.

Marshall, Francis Cutler, & Simonds, G. S. 355 M41a

Military primer, including an outline of the duties and responsibilities of the military profession and an elementary discussion of the principles and practice of the service of security and information. 1916. Miller.

The same. 1913.....355 M41

Intended to illustrate the application of the field service regulations to the National guards during the period of the manœuver exercises that precedes actual contact. The problems discussed are little more than map-reading problems.

r 355 O16

Officers training corps of Great Britain, the Australian system of national defense, the Swiss system of national defense; presented by Mr Chamberlain, Jan. 26, 1915. 1915. (United States. 63d cong. 3d sess. Senate. Doc.796.)

O'Ryan, Maj.-Gen. John Francis, & Anderson, W. D. A. 355 O28

The modern army in action; an exposition of the conduct of war. 1914. McBride.

"A good elementary manual on the theory and art of war, giving a clear and concise account of all branches of military service, principles of strategy, functions of the different arms, descriptions of the German and British military systems, and other information which will make it possible for the layman to understand and follow the operations of the present, or any war." *A. L. A. booklist, 1915.*

United States—War college division. r 355 U2538s

Strength and organization of the armies of France, Germany, Austria, Russia, England, Italy, Mexico and Japan. 1911. (Publications; new ser. no.17.)

The same; showing conditions in July 1914. 1916. (Publications; new ser. no.22.)r 355 U2538s2

Williams, Henry Smith, & Williams, E. H. 355 W74

Modern warfare. 1915. Hearst's International Library Co.

Contents: The introduction of firearms.—The development of small arms.—Projectiles and armor.—Progress in naval guns and projectiles to the time of the breech-loader.—Breech-loading small arms.—Torpedoes, mines and torpedo boats.—Modern breech-loading cannon.—Gun sights and range finders.—The evolution of the battle ship.—The battle ship of to-day.—Grappling with disease.—Modern explosives.—Submarine and aerial warfare.

Military education

Bacon, Corinne, comp. 355.07 B12

Selected articles on military training. 1915. Wilson. (Debaters' handbook series; abridged.)

"Bibliography," p.7-12.

The samer 355.07 B12

Gignilliat, Leigh Robinson. 355.07 G38

Arms and the boy; military training in schools and colleges, its value in peace and its importance in war, with many practical suggestions for the course of training, and with brief descriptions of the most successful systems now in operation, with introduction by N. D. Baker. 1916. Bobbs.

The samer 355.07 G38

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Status of the military department in the land-grant colleges [a paper read before a joint meeting of the Association of American Agricultural Colleges and Experiment Stations and the Land-Grant College Engineering Association, at Washington, Nov. 14, 1913]. 1914. U. S. Government.

Ransom, William Lynn, ed. r 305 N26 v.6

Military training, compulsory or volunteer; a series of addresses and papers presented at the semi-annual meeting of the Academy of Political Science, May 18, 1916. 1916. (In New York (city), Academy of Political Science. Proceedings, v.6, no.4.)

United States—Navigation bureau. (Navy department.) r 355.07 U253

Course in history, geography, arithmetic, etc. for the use of enlisted men. 1915.

United States—War department. r 355.072 U253

Regulations for the United States Military Academy, West Point, N. Y., 1916. 1916.

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Uniforms. Medals

United States—Quartermaster's department. r 355.14 U25r3
Regulations for the uniform of the United States army. 1914.

United States—Quartermaster corps. r 355.14 U253
Specifications for the uniform of the United States army, 1915. 1915.

Payne, Algernon Archibald. qr 355.142 P33
Handbook of British and foreign orders, war medals and decorations awarded to the army and navy, chiefly described from those in the collection of A. A. Payne, of which there are some 2,500. 1911. North-end.

"Some works consulted," p.61-62.

Organization. Tactics

United States—Militia affairs division. qr 355.3 U25
Organized militia, 1914; peace. 1914. (United States—War department. Tables of organization, United States army, 1914, section 8.)

United States—War department. qr 355.3 U253
Tables of organization, United States army, 1914. 1914.

United States—Army service schools, Fort Leavenworth, Kan. 355.4 U25

Studies in minor tactics, 1915; prepared by Department of military art. 1915.

The same r 355.4 U25
"A series of troop leading problems in which the various phases of field operations are set forth and commented on, orders being given for all the units involved down to the smallest patrol." *Preface*.

Wagner, Arthur Lockwood. 355.4 W13a
Service of security and information. 1903. Hudson.

Contents: Preliminary definitions.—Introduction.—The advance guard.—Outposts.—Reconnaissance.—The cavalry screen.—Rear guard.—Spies.—Newspapers.—Orientation and map reading.—Indian scouting.—Appendix.

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Garrison and field service

Andrews, Lincoln Clarke. 355-5 A56

Fundamentals of military service; prepared under the supervision of Major General Leonard Wood. 1916. Lippincott.

General discussion of the practical side. Written for those who wish to have an intelligent opinion about the army before they enter actual service. Shows what is required and what is expected of those who enlist. May be used as a text-book.

The same. 1916.....r 355-5 A56

Moss, James Alfred. 355-5 M93

Manual of military training; intended primarily for use in connection with the instruction and training of cadets in our military schools, and of company officers of the organized militia and secondarily as a guide to company officers of the regular army, the aim being to make efficient fighting companies and to qualify our cadets and militia officers for the duty and responsibilities of company officers of volunteers. [1915.] Banta.

Moss, James Alfred, & Stewart, M. B. 355-5 M93s

Self-helps for the citizen-soldier; being a popular explanation of things military. 1915. Banta.

"Does not pretend to be a manual of military training, but is intended to serve as a guide by means of which the civilian may inform himself concerning military matters sufficiently to enable him to understand...what will be required of him when he is called upon to learn the soldier's trade for the defense of his country. The authors are both captains in the regular army." *Review of reviews*, 1916.

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Extracts from reports by regular and militia officers on the joint army and militia coast-defense exercises during the year 1911. 1911.

Handbooks. Instruction camps. Riot duty

United States—War department. r 355-51 U25f

Field service regulations, United States army, 1913-14. 1913-14.

The same, 1914 [with changes no.1-5, to Dec. 20, 1916]. 1914-17.355-51 U25

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Soldier's handbook for use in the army of the United States; rev. 1913. 1913.

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Prepared by direction of the adjutant-general.

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Views of first training regiment at Plattsburg, N. Y., 1915; U. S. regular army camps of instruction for business and professional men. [1915.]

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Riot duty. 1911. Privately printed.

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Presents in compact form the law and tactics to be observed in the military suppression of riots.

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 Combined infantry and cavalry drill regulations for automatic machine rifle caliber .30, model of 1909. 1915.
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 Manual of interior guard duty, U. S. army. 1914.

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The same.....r 355.57 U25c
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 Volume for 1912 title reads "Technical notes and extracts from reports of coast artillery target practice, with comments of officers on matériel and methods, and suggestions for the improvement of practice."

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 Chaplain's duties and how best to accomplish his work. 1912. (United States—War department.)

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Compilation of laws (revised statutes and statutes at large) relating to the Quartermaster corps. 1914.

United States—Staff corps, General. r 355.83 U25

United States army transport service regulations, 1914. 1914.

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The trumpeters' manual for the use of trumpeters in the military and naval forces of the United States. 1910. [Worley.]

Norton, Oliver Willcox. r 355.85 N46

Two bugle calls. [1903?]

On the use of bugle calls used in the Civil war.

United States—Marine corps. r 355.85 U25

Instructions for the trumpet and drum, with the full code of signals and calls used by the United States army, navy and marine corps. 1915.

Music in text.

Armies

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Kipling, Rudyard. 355.942 K27

The new army in training. 1915. Macmillan.

Pamphlet made up of articles which originally appeared in the "Daily telegraph."

"Mr. Kipling visited the training camps and saw the flower of British youth being forged into the weapon that is to be hurled against Germany...We have called the Army a weapon, but Mr. Kipling, as any one might guess, saw the troops in the making rather as a highly animate piece of mechanism. He takes that mechanism to pieces, examines each part, dwells affectionately on its name, states its functions, and seems to see a vision of the whole when the parts will be reassembled and driven by human intellect, courage, and good will." *Spectator*, 1915.

Vivian, Evelyn Charles H. 355.942 V35

The British army from within. 1914. Doran.

"Excellent little manual...Written with apparent fullness of knowledge, and with an evidently sincere desire to convey information. It takes up Tommy Atkins in the recruiting office and carries him through the routine of the various branches of the service in a systematic, complete, and eminently readable fashion." *Nation*, 1914.

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The German army from within, by a British officer who has served in it. 1914. Doran.

Consists chiefly of random impressions of the German soldier's life and training.

Henderson, Ernest Flagg.

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Germany's fighting machine; her army, her navy, her air-ships and why she arrayed them against the allied powers of Europe. 1914. Bobbs.

From a pro-German standpoint.

French. Russian. Swiss

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The French army from within, by "Ex-trooper." 1914. Doran.

"As a whole his account deals in generalities which might be true of any army; the exception being a fair amount of data regarding organization." *Nation*, 1914.

Houssaye, Henry.

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La patrie guerrière; publiée avec une introduction et des notes par Louis Sonolet. 1913.

Contents: Introduction.—Autour de Napoléon.—Portraits d'hommes de guerre.—Soldats du temps passé.—Récits de guerre.—Souvenirs et impressions.—Questions militaires.—L'armée et la patrie.—Appendice: Aux morts de Waterloo.

Stevani, William Barnes.

355-947 S84

The Russian army from within. 1914. Doran.

Describes the classes of soldiers and their military training, as observed during a residence of 27 years in the country. Interesting, though somewhat superficial because of its hasty preparation.

Grande, Julian.

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The same.....r 355-9494 G77

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Breckinridge, Henry.

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Reprinted from the "New York times," Dec. 5, 1915.

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Carter, William Harding.

355-973 C23

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By a major-general of the United States army.

"The manuscript...was begun before the outbreak of the present war in Europe, with a view of setting forth the conditions and methods of administration of the American army, and the urgent need of nationalizing and organizing our military resources."

Author's note.

Gardner, Augustus Peabody, & Hillquit, Morris. r 355-973 G18

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Greene, Francis Vinton. 355-973 G83

The present military situation in the United States. 1915. Scribner.
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Huidekoper, Frederic Louis. 355-973 H91

Military unpreparedness of the United States; a history of American land forces from colonial times until June 1, 1915, with an introduction by Major General Leonard Wood. 1915. Macmillan.

The same.....r 355-973 H91

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Written to "arouse the American people to a realization of the necessity for adequate national defense," by showing that the United States has always been unprepared, and has suffered unnecessary losses thereby. "Our historians," the author says, "have painted in glowing colours the successes of our former wars but have suppressed with studied care the blunders which have characterised our military policy throughout the past." He aims to present the "unvarnished truth."

"The larger part...is devoted to a detailed account of American military legislation and events from the close of the civil war to the current year, presenting a multiplicity of data never before embodied in a single work." *New York times*, 1915.

Maxim, Hudson. 355-973 M52

Defenseless America. 1915. Hearst's International Library Co.

"Object...is to present a phalanx of facts upon the defenseless condition of this country, and to show what must be done...to avert the...invasion by a foreign foe." *Preface*.

Maxim, Hudson, comp. 355-973 M521

Leading opinions both for and against national defense; a symposium of opinions of eminent leaders of American thought on the subject; a handbook and guide for debaters and public speakers presenting both sides of the question with absolute impartiality. 1916. Hearst's International Library Co.

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Muller, Julius Washington. 355-973 M95

The A B C of national defense; what the army and navy would have to do in war, why they would have to do it, and what they need for successful performance. 1915. Dutton.

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Stimson, Henry Lewis, and others.

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What is the matter with our army? 1912. (United States. 62d cong. 2d sess. Senate. Doc. no.621.)

Contents: It lacks concentration, by Leonard Wood.—It is needlessly expensive, by W. W. Wotherspoon.—It lacks organization, by C. R. Edwards.—Its alienation from the people, by Hunter Liggett.—Its piecemeal development and divided control, by G. H. Shelton.—The national failure to realize its purpose, by R. K. Evans.—What is the matter with our army? by H. L. Stimson.

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Addresses of President Wilson, Jan. 27-Feb. 3, 1916. 1916. (64th cong. 1st sess. House. Doc. no.803.)

Addresses on national defense made during a trip to the middle west.

United States—War college division.

r 355-973 U25

Statement of a proper military policy for the United States. 1915.

States briefly the requirements for national defense in oversea and home service. Contains recommendations for the increase of the regular and militia forces, the organization of reserves, and the storage of supplies and equipment, with an estimate of costs.

——Supplement. 1916.....**r 355-973 U25a**

United States—War department.

r 355-973 U253

Statement made by the secretary of war to the Committee on military affairs of the House of representatives, Jan. 6, 1916. 1916.

With this are bound: Secretary of war Garrison's explanation of the military policy recommended by him and approved by the president.—An outline of the proposed military policy.—The modern soldier can not be made in a day, by Henry Breckinridge.

Upton, Emory.

r 355-973 U26

Military policy of the United States. 1912. (United States. 62d cong. 2d sess. Senate. Doc. no.494, v.25.)

Issued as a War department document.

Author of this work, a distinguished officer in the Civil war, was sent around the world at the close of the war to study the armies of Europe and Asia. His report, containing valuable conclusions, was not then printed by the government but filed in manuscript and forgotten among the numberless documents in the archives of the War department. Many of its recommendations have since been adopted and become a part of our military policy. The report was finally printed by the government in 1904.

Wheeler, Howard Duryée.

355-973 W61

Are we ready? with a letter by Major-General Leonard Wood. 1915. Houghton.

"Articles reprinted from *Harper's Weekly*. The writer supports his plea for military preparedness by a study of actual conditions as they exist in the United States army, navy, and militia; and shows graphically how complete is our unreadiness by picturing the effects of an imaginary attack on New York City. He points out the weakness of our system as compared with those of Switzerland and Australia, and suggests improvements." *A. L. A. booklist, 1915.*

Wood, Eric Fisher.

355-973 W85

The writing on the wall; the nation on trial. 1916. Century.

Author maintains that the fate of Belgium is for America as a writing on the wall, proclaiming that the only valid insurance against unprovoked attack is adequate military preparedness. His plan of protection, based on the Swiss system of national defense, is offered as the verdict of army and navy officers whom regulations forbid to speak for themselves.

Wood, Leonard.

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Military obligation of citizenship. 1915. Princeton University Press.

Contents: The policy of the United States in raising and maintaining armies.—The military obligation of citizenship.—The civil obligation of the army.

The first of these addresses was delivered at Princeton, April 15, 1915; the second at the Lake Mohonk Conference, May 20, 1915; the third at St. Paul's school, June 15, 1915.

Wood, Leonard.

355-973 W8540

Our military history; its facts and fallacies. 1916. Reilly.

Briefly reviews the shortcomings and the cost of our military policy, and advocates a strong navy, a highly trained mobile expeditionary force, and universal military training on the Swiss or Australian model.

Woodhull, Maxwell Van Zandt.

355-973 W86

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Contents: Unready; a warning.—West Point; its expansion and reorganization.—The only way to create and to maintain an army [conscription].—The organization of an army for war.—The diplomacy of national defence.—Postscript, Nov. 20, 1915: A consideration of the plan of the secretary of war for the national defence.

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United States—Militia affairs division.

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United States—War department.

357 U25s

Saber exercise, 1914. 1914.

The same.....r 357 U25s**United States—War department.**

qr 358 U25d3

Coast artillery drill regulations, 1914. 1914.

United States—War department.

r 358 U25drf

Drill regulations for field artillery (4.7-inch gun), United States army (provisional), 1914. 1915.

359 Naval science

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Chatterton, Edward Keble.

359 C39

King's cutters and smugglers, 1700-1855. 1912. Lippincott.

History of smuggling, of the exploits of the revenue cutters and of the English preventive service in dealing with it.

r 359 A41

Fighting ships; ed. by F. T. Jane, 1912-16. 15th-19th year of issue. 1912-16.

For earlier editions see earlier volumes of catalogue under this title and under title "All the world's fighting ships."

Fiske, Bradley Allen.

359 F54

The navy as a fighting machine. 1916. Scribner.

Contents: GENERAL CONSIDERATIONS: War and the nations; Naval A, B, C.; Naval power; Naval preparedness; Naval defense; Naval policy.—NAVAL STRATEGY: General principles; Designing the machine; Preparing the active fleet; Reserves and shore stations; Naval bases; Operating the machine.

Contains strategic map of the Atlantic and Pacific oceans.

Hannay, David.

359 H23n

The navy and sea power. [1913.] Williams. (Home university library of modern knowledge.)

"Bibliographical note," p.251-252.

Deals rather with broad historic principles than questions of strategy and tactics and provides a fairly comprehensive survey of naval conflicts from the days of the Phœnicians to our own times.

Hutchinson, J. R.

359 H97

The press-gang afloat and ashore. 1913. Nash.

History of the impress system, by which men were seized and compelled to serve as seamen on English ships. Contains many interesting anecdotes supported by historical evidence. Illustrated from old prints.

Parker, Thomas Drayton.

359 P24

Naval handbook as bearing on national defense and the European war. 1916. Newbegin.

Contents: Types of warships and their functions.—The dreadnought, "the mechanical whale."—The cruiser, "the eyes of the fleet."—The submarine, "the mechanical swordfish."—Other classes, including the train.—Guns and ammunition.—Torpedoes and mines.—Some principles of naval warfare.—Some points in international law.—Ships of the air.—APPENDIX: Strength of our own and of foreign navies.

United States—Naval academy.

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Regulations, as approved by the secretary of the navy, 1911; revised to Aug. 1, 1916. 1916.

United States—Navy department.

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Regulations for the government of the navy, 1913-16. 4v. 1913-16.

Loose-leaf edition.

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Matthews, Franklin.**359.01 M47**

With the battle fleet; cruise of the sixteen battleships of the United States Atlantic fleet from Hampton Roads to the Golden Gate, December 1907–May 1908. 1908. Huebsch.

Excellent record of life aboard our men-of-war during the trip. Written by a newspaper correspondent in a style interesting to boys as well as adults. *Condensed from Nation, 1908.*

Neeser, Robert Wilden.**359.01 N19**

Our many-sided navy. 1914. Yale University Press.

Contents: Introduction.—The fleet at sea.—The naval station at Guantanamo bay.—The organization of the ship.—The bluejacket's daily life.—The battleship as an educational institution.—The engineering competitions.—Athletics in the navy.—The sailor as soldier.—The work of the torpedo flotillas.—Gunnery training.—Target practice.—APPENDICES: The navy's services in times of peace; Organization and distribution of the navy, February 1, 1914; The organization of the ship; The weekly routine on ship-board.

Appeared in a condensed form in the "Navy," under the title "An American fleet in being."

Inside view of the daily life and duties of the American naval recruit, written in familiar but engaging style by an acknowledged authority on naval affairs. *Condensed from Nation, 1914.*

United States Naval Academy

United States—Navigation bureau. (Navy department.) **r 359.071 U25**

Examination papers for admission to the United States Naval Academy, Annapolis, Md.; printed for general information, April 1909–April 1916. 1916.

United States—Navigation bureau. (Navy department.) **r 359.071 U25r2**

Regulations governing the admission of candidates into the U. S. Naval Academy as midshipmen, May 1916. 1916.

The same, April 1911.....**r 359.071 U25r**

Naval stations. Naval strategy

Edwards, John Richard.**r 359.1 E31**

Strategical importance of our naval stations; article on the imperative need of developing along with the fleet, adequate and efficient naval stations. 1916. U. S. Government.

Printed for the use of the Senate committee on naval affairs.

United States—Navigation bureau. (Navy department.) **359.1 U25**

Regulations for the naval auxiliary service; corrected to Feb. 28, 1914. 1914.

The same.....**r 359.1 U25**

United States—Yards and docks bureau.**r 359.1 U253**

Public works of the navy; data as compiled by the Bureau of yards and docks, Navy department. 1916.

Gives the location of the various naval stations, reservations, barracks, hospitals, etc. and statistics as to the character, value and condition of buildings belonging to them.

Mahan, Capt. Alfred Thayer.

359.4 M25

Naval strategy compared and contrasted with the principles and practice of military operations on land; lectures delivered at U. S. Naval War College, Newport, R. I., between the years 1887 and 1911. 1911. Little.

"Author is an unquestioned authority and while he treats his subject somewhat technically, his explanations of operations by Napoleon, Marlborough, Nelson and by commanders in the Russo-Japanese, Spanish-American, Revolutionary and continental wars are of value to students of history." *A. L. A. booklist, 1912.*

Naval regulations

United States—Navy department.

r 359.5 U25f

Firing regulations for small arms, U. S. navy, 1916. 1915.

United States—Navigation bureau. (Navy department.)

r 359.51 U2532

Enlistment, instruction, pay and advancement of men in the United States navy. 1915.

United States—Pay department, Marine corps.

r 359.51 U25

Manual of the Paymaster's department, U. S. marine corps, August 1912. 1912.

United States—Supplies and accounts bureau. (Navy department.)

r 359.51 U253

Manual for the instruction of enlisted men in pay department duties afloat. 1914.

Uniforms. Medical service

United States—Coast guard.

r 359.6 U2532

Regulations governing the uniforms for warrant officers and enlisted persons of the United States coast guard, 1916. 1916.

United States—Marine corps.

r 359.6 U25

Uniform regulations, United States marine corps, together with uniform regulations common to both U. S. navy and marine corps, 1912. 1913.

United States—Navy department.

r 359.6 U253

Uniform regulations, United States navy, with uniform regulations common to both navy and marine corps, Navy department, 1913. 1913.

United States—Medicine and surgery bureau.

359.66 U25

Drill book for the hospital corps, United States navy, 1915. 1915.

The same.....**r 359.66 U25d**

For volumes for 1902, 1907 see preceding catalogue, v.4, 6, under United States—Surgeon-general's office.

United States—Medicine and surgery bureau.

r 359.66 U25

Manual for the Medical department of the United States navy. 1914.

United States—Medicine and surgery bureau. r 359.66 U25m

Medical compend for masters of the naval auxiliary service (medicine box, U. S. N.). 1916.

Navies

United States—Naval intelligence office. r 359.9 U25

Information concerning some of the principal navies of the world; a series of tables compiled to answer popular inquiry, 1913, 1916. 1913-16.

Tables showing the relative strength of the principal naval powers, the types of vessels built or in process of construction and the number of cruisers popularly known as dreadnoughts.

For volumes for 1909, 1911 see preceding catalogue, v.6.

Kipling, Rudyard. 359.942 K27

The fringes of the fleet. 1915. Doubleday.

It is a heterogeneous fleet, heterogeneously manned that Kipling describes in this small volume. The trawlers which incessantly sweep the seas for mines, and fish for submarines appeal particularly to his imagination, and what he has to tell us of the activities of these craft is generally fresh and always interesting. *Condensed from Nation, 1916.*

Hurd, Archibald S. & Castle, Henry. 359.943 H94

German sea-power; its rise, progress and economic basis, with maps and appendices giving the fleet laws, etc. 1913. Scribner.

"Free from insular prejudice and without other motive than that of simply telling the facts, these two English authors explain clearly and sympathetically the motives and manner of Germany's extraordinary naval expansion during the past fifteen years. In the appendices [are] numerous statistics comparing English and German sea-power, and also a translation of the more important navy bills by which Admiral von Tirpitz has cleverly built up the German fleet." *Nation, 1914.*

United States navy

Benham, Edith Wallace, & Hall, Mrs Anne r 359.973 B43

(Martin), comp.

Ships of the United States navy and their sponsors, 1797-1913. 1913. Privately printed.

Contents: Custom of bestowing the name on U. S. naval vessels. — Society of Sponsors of the U. S. Navy.—Ships of the U. S. navy with known sponsors.—Nomenclature and U. S. statute laws governing names of vessels.—The baptism of ships; a history of the custom among the various nations.—Index of names of known sponsors of the U. S. naval vessels.

Neeser, Robert Wilden. 359.973 N19

Our navy and the next war. 1915. Scribner.

"A timely presentation of the facts about the United States navy and its needs, from the navy man's standpoint. Considers questions of peace preparation, requirements, policy, and personnel, points out deficiencies in organization and management, and urges a general enlargement and strengthening of the navy." *A. L. A. booklist, 1915.*

United States—General board. (Navy department.) qr 359.973 U253

[Special reports], 1903, 1915. 1903-15.

Report for 1903 is a confidential statement of the numbers and types of ships regarded by the General board as essential to the interests of the country. It is a type-written copy.

Report for 1915 title reads "Naval policy with present requirements," it has been issued as Senate doc. no.231 of the 64th cong., 1st sess.

United States—Navy department. r 359-973 U25
Ships' data, U. S. naval vessels, 1911-13, 1916. 1912-16.

Williams, Henry. 359-973 W74
United States navy; a handbook. 1911. Holt.

Contents: Naval history.—The navy's organization.—The navy's personnel.—Man-of-war in commission.—Classes of ships in the navy.—Description [of a battleship].—High explosives, mines, torpedoes, aeroplanes.—Designing and building a warship; dry docks.—The national defense.

360 Associations and institutions

Charities and corrections

Bonsall, Ward, comp. r 360 B62
Hand book of social laws of Pennsylvania. 1914.

Contents: Children.—Children and the courts.—Desertion and non-support.—Poor law.—Mental defectives.—Public health.—Criminal law.—Collection of debts.—Labor.—Marriage, divorce and married women.—Decedents.—Miscellaneous.

Published by the Associated Charities of Pittsburgh and the Philadelphia Society for Organizing Charity.

Bosanquet, Mrs Helen. 360 B641
Social work in London, 1869 to 1912; a history of the Charity Organization Society. 1914. Murray.

The aim of this society has been to substitute scientific methods of investigation for indiscriminate and harmful giving. Mrs Bosanquet, who is well qualified for her task, tells the story of the early struggles of the society in the face of wide-spread opposition and describes some of its present activities—housing and sanitation reforms, medical charities, work for the unemployed, care of defective persons, etc.

Boston, Associated Charities. r 360 B64
Directory of the charitable and beneficent organizations of Boston, together with legal suggestions, laws applying to dwellings, etc., 1914. Old Corner Bookstore.

Boston, Social Research Council. r 360 B644
Bulletin. no.1-2. 1912-13.
no.1. A preliminary list of recent social investigations in greater Boston.
no.2. An additional list of social investigations in greater Boston to Sept. 1913.
Bulletin no.2 issued as Publication no.6 of the Social ethics department of Harvard University.

Brooklyn Bureau of Charities. r 360 B77
Suggestions for a social program for greater New York, with a directory of speakers on municipal problems, by Seba Eldridge. (Series of 1913-14.)

Published by the Department of social betterment of the Brooklyn Bureau of Charities.

Chicago School of Civics and Philanthropy. r 360.7 C43al
Alumni register, 1903-1913. 1912. (Bulletin no.17, Oct. 1912.)

Chicago School of Civics and Philanthropy. r 360.7 C43
Year book, 1912-1913, with register, 1911-1912. 1912. (Bulletin no.15.)
Binder's title reads "Preparing for social work."

Devine, Edward Thomas.

360 D49f

The family and social work. 1912. Survey Associates.

Contents: The appeal of social work.—The family.—The biologic basis.—The economic basis.—Social claims of women and children.—Inefficiency and desertion.—The problem of the subnormal.—Responsibility and opportunity.—Coordination of social work. "References," p.159-163.

Written to make clear the essentially religious character of social work and to emphasize its emotional appeal.

Devine, Edward Thomas.

360 D49

The spirit of social work; addresses. 1911. Charities Publication Committee.

Contents: The conservation of human life.—The tenement home in modern cities.—The substantial value of woman's vote.—The attitude of society towards the criminal.—The correction and prevention of crime.—The problem of the police.—The religious treatment of poverty.—The dominant note of the modern philanthropy.—The next quarter century.

Devine, Edward Thomas, & Van Kleeck, Mary.

r 360 D49

Positions in social work; a study of the number, salaries, experience and qualifications of professional workers in unofficial social agencies in New York city, based upon an investigation made by Florence Woolston for the New York School of Philanthropy and the Intercollegiate Bureau of Occupations. 1916. New York School of Philanthropy.

With this is bound "Social work as a profession for college men and women," by K. H. Claghorn.

Haldane, John Bernard, ed.

r 360 H15

The social workers' guide; a handbook of information and counsel for all who are interested in public welfare. [1911.] Pitman.

Concise articles on nearly 500 subjects related to social reform conveniently arranged for reference.

**Hoboken, N. J. Robert L. Stevens Fund for
Municipal Research.**

r 360 H65

Directory of public officials, educational, civic and charitable organizations, churches and religious congregations of the city of Hoboken. 1911.

With this is bound "Digest of the powers and duties of the officers and boards of the city of Hoboken."

Indiana—Legislative committee on state educational,
benevolent and correctional institutions.

r 360 I242

Report to the 68th-69th General assembly, 1913-15. 1913-15.

For volumes for 1907-11 see preceding catalogue, v.6.

New York (city)—Estimate and apportionment board. qr 360 N2612

Report of the committee on inquiry into the departments of health, charities, and Bellevue and allied hospitals in the city of New York; investigation and report under the direction of H. C. Wright. 1913.

New York (city), Bureau of Municipal Research.

r 360 N261

Outside cooperation with the public schools of greater New York, submitted March 1912 to the Board of estimate's committee on school inquiry. [1912.]

- New York School of Philanthropy.** r 016.36 N26
Library bulletin [bibliographies], Oct. 1911-May 1913. no.1-11.
1911-13.
no.1. Farm colonies.
no.2. Vocational guidance.
no.5. Town planning.
no.6. Improved housing.
no.7. Feeble-minded children.
no.8. Librarian's report, 1911-12.
no.9. Church in social life.
no.10. Infant welfare.
no.11. Books of 1912 on social subjects.
no.3-4 wanting.
Continued in the Bulletin of the library of the Russell Sage foundation (r 016.3 R91).
- Pennsylvania Conference of Charities and Correction.** r 360 P39
Proceedings of the conference (3d-4th), 1911-12.
- Smith, Samuel George.** 360 S65
Social pathology. 1914. Macmillan.
"Bibliography," p.355-360.
Contains considerable information, mostly correct and serviceable, about social problems, but covers too much ground to develop any one topic thoroughly. Author is at his best in his chapters on crime and in the discussion of the standard of living.
- Southern Sociological Congress.** r 360 S72
Addresses at congress (1st-4th), 1912-15. v.1-4. 1912-15.
v.1. The call of the new South.
v.2. The South mobilizing for social service.
v.3. Battling for social betterment.
v.4. The new chivalry; health.
The purposes of the congress are to study and improve social, civic and economic conditions in the South.
- Worthington, Mrs Mary Grace, comp.** r 360 W91
Fifty benevolent and social institutions in and near New York; a brief guide for visitors. 1915. [McMurtrie.]
- United States—Census bureau.** qr 317.3 U25c12sp
Benevolent institutions, 1910. 1913. (In its Special reports, v.32.)
For volume for 1904 see preceding catalogue, v.4.

361 Organized charity

Charitable work

- Allen, William Harvey.** 361 A43
Modern philanthropy; a study of efficient appealing and giving.
1912. Dodd.
Six thousand appeals made to Mrs E. H. Harriman during a period of two years by individuals and institutions, and for sums aggregating two hundred and sixty-eight million dollars are here examined and classified and made the basis of a study of the best ways of appealing and giving.
- American Red Cross bulletin** [quarterly], 1913-14. v.8-9, in 1. 1913-14. qr 361.06 A51
- Austin (Pa.) Relief Association.** r 361 A93
Report of the Austin Relief Association dealing with the relief work after the disaster of September 30, 1911, containing the reports of the general association and the reports of the secretary of the local committee at Austin, Pa.; report of the secretary, G. P. Donehoo. 1912.

Baltimore, Charity Organization Society. r 361 B21

Annual report (18th, 21st-22d, 25th-26th), for the year ending Nov. 1, 1899, 1902-03, 1906-07. 1899-[1907].

After 1907 the reports are included in the joint annual report of the Federated charities of Baltimore.

For earlier reports see preceding catalogue, v.1.

Baltimore, Federated Charities. r 361 B217

Annual report (1st-4th), for the year ending Oct. 31, 1908-11.

Federated charities composed of two societies; the Association for the Improvement of the Condition of the Poor and the Charity Organization Society.

1st-2d report, title reads "Joint annual report."

Beck, Joseph Albert. r 361 B36

State aid to private charitable institutions. Catholic Truth Soc. Pittsburgh.

With this is bound "Advantages and disadvantages of institutions for dependent children," by T. F. Coakley.

Billington, Mary Frances. 361 B48

Red Cross in war; woman's part in the relief of suffering. 1914. Hodder.

"Describes briefly the modern methods of military nursing developed during and since the Boer War. Devoted mainly to the origin of the British Red Cross and its work in recent wars, though the French and German organizations are touched on; not much on the present conflict." *A. L. A. booklist*, 1915.

Boardman, Mabel Thorp. 361 B57

Under the Red Cross flag at home and abroad, with a foreword by Woodrow Wilson. 1915. Lippincott.

Appendix: The revised treaty of Geneva signed July 6, 1906.

History of war relief work, and the part this country has had in the movement.

California—Charities and correction, State board of. r 361 C133

Biennial report (5th-6th) from July 1, 1910 to June 30, 1914. 1912-15.

For report for 1904/06-1908/10 see preceding catalogue, v.6.

Civic Club of Allegheny County. r 361 C49a

Annual report, 1911/12-1915/16. Pittsburgh.

Cleveland foundation—Survey committee. r 361 C58

Survey of Cleveland agencies which are giving relief to families in their homes. 1915. (Publication no.1.)

Davis, Philip, ed. 361 D32

The field of social service; ed. in collaboration with Maida Herman. 1915. Small. (Welfare series.)

Contents: Background in social work.—Community problems.—The community and the child.—Social agencies.—*SUPPLEMENT:* Salaried positions in social work; Opportunities for training in social work.

"Suggested reading" at the end of each chapter.

Emsworth, Pa. Polska Ochronka Najświętszej Rodziny. q 361 E61

Historia polskiej ochrony w Emsworth, Pa. 1907. Pittsburgh.

The same.....qr 361 E61

Illinois—State charities commission. r 361 I226

Annual report (3d-4th), 1912-13.

This commission has succeeded to the visitorial, inspectorial, critical and recommendatory powers and duties of the Illinois board of public charities.

Reports after 1913 will be found in the "Institution quarterly," issued by the State

Illinois—State charities commission—*continued*. r 361 I226
board of administration, State charities commission and State psychopathic institute
(qr 361 I247).

For report for 1910 see preceding catalogue, v.6.

qr 361 I247

Institution quarterly; an official organ of the public charity service of Illinois, Aug. 1910–date. v.1, no.2–date. 1910–date.

Kansas—State charitable institutions, Board of control of. r 361 K128
Biennial report (4th–6th), 1910/12–1914/16. 1912–16.

For earlier reports see preceding catalogue, v.6.

Kansas—State charitable institutions, Board of control of. r 361 K128s
Semiannual bulletin (5th–9th), Sept. 1910–Oct. 1912. 1910–13.

Kansas City, Mo.—Public welfare board. r 361 K1282
Annual report (2d, 7th), 1910/11, 1915/16. [1911–16.]

Name of board was changed from Pardons and paroles board, April 27, 1910.

Kingsley House Association of Pittsburgh, pub. r 361 K27
Directory of the philanthropic agencies of the city of Pittsburgh,
1913. 1913. Pittsburgh.

For volumes for 1908, 1910 see preceding catalogue, v.6.

Legal Aid Society of Pittsburgh. r 361 L54y
Year book, 1913–16.

Minnesota State Conference of Charities and Correction. r 361 M72
Proceedings of the conference (19th–22d), 1910–13.

Includes the report of the annual meeting (9th–12th) of the County officials' section (State Association of County Commissioners).

For volumes for 1903–10 see preceding catalogue, v.6.

National Conference of Catholic Charities. r 361 N1552
Proceedings [of biennial meeting (2d–3d)], 1912–14.

For report for 1910 see preceding catalogue, v.6.

National Conference of Charities and Correction. r 361 N15
Proceedings; cumulative index, v.34–38, 1907–11.

For index for 1874–1906 and for Proceedings see preceding catalogue, v.1, 6.

r 361 N155

National Conference of Charities and Correction bulletin, Oct. 1913–date. no.62–date. 1913–date.

Issued about four times each year.

Beginning with 1913 the volume number is dropped and each bulletin is given consecutive numbering from first issue.

For no.1–61 see preceding catalogue, v.6, under title "National bulletin of charities and correction."

Needlework Guild of America. r 361 N19
Biennial report (23d–28th), 1907–12. 1909–13.

New Hampshire—Charities and correction, State board of. r 361 N2614
Biennial report (9th–10th), 1910/12–1912/14.

For reports for 1898/1900–1908/10 see preceding catalogue, v.6.

New York (city), Charity Organization Society. r 361 N26

New York charities directory; an authoritative, classified and descriptive reference book to the social, civic and religious resources of greater New York and vicinity, including national organizations, 1913, 1915. v.22, 24. 1913–15.

For volume for 1898 see preceding catalogue, v.1.

- Ohio—Administration board.** r 361 O183
 Annual report (1st-5th), 1911/12-1915/16. 1913-16.
 The Board of administration has charge of the various institutions of the state.
- Ohio—Charities, Board of.** r 361 O180
 Ohio bulletin of charities and correction; quarterly, 1910-date. v.16-date. 1910-date.
 v.18, no.4, wanting.
 Proceedings of the Ohio State Conference of Charities and Correction appear in this bulletin.
 Bulletin for Nov. 1910 is the 32d report of the Ohio board of charities (r 361 O18).
 For v.15 see preceding catalogue, v.6.
- Ohio—Charities, Board of.** r 361 O18
 Report (33d-34th) for the biennial period ending Nov. 15, 1911-13. 1912-14.
 For earlier reports see earlier volumes of this catalogue.
- Pennsylvania—Charitable institutions, Commission to** r 361 P3992
 investigate.
 Report of the Joint commission appointed by the Senate and House of representatives of the commonwealth of Pennsylvania to investigate certain charges made by the Allegheny county branch of the Public Charities Association of Pennsylvania against certain institutions in Allegheny county. 1915.
- Pennsylvania, Public Charities Association.** r 361 P399
 Report (1st-2d), 1913-15.
 Report for 1913 title reads "Annual report."
- Pittsburgh, Associated Charities.** r 361 P6742as
 As others see us; an anniversary review of some of the positive achievements of the Associated Charities of Pittsburgh during four pioneer years of service. [1912.] Pittsburgh.
- Pittsburgh Association for the Improvement of the Poor.** r 361 P67
 Annual report (35th), for the year ending Nov. 1, 1910. [1910.] Pittsburgh.
 For earlier reports see preceding catalogue, v.4, 6.
- Pittsburgh, Chamber of Commerce.** r 361 P6743r
 Report of Committee on charities, endorsement and advice on charities situation in Pittsburgh and vicinity, Nov. 1911.
- Pittsburgh Flood Relief Committee.** r 361 P6744
 Report of Pittsburgh Flood Relief Committee, organized March 26, 1913 for relief of flood sufferers in the Ohio district. 1913. Pittsburgh.
- Red-cross Society.** qr 361 R269r
 Conférence internationale (9me) de la Croix-Rouge, 1912; compte-rendu. 1912.
- Red-cross Society. (Italy.)** qr 361 R26
 La Croce Rossa Italiana pei danneggiati dal terremoto Calabro-Siculo del 28 dicembre 1908; rendiconto e relazione. 1911.

Red-cross Society. (United States. American National Red Cross.)

r 361 R269

Annual report, June 1900–date. 1901–date.

Reports previous to 1916 will be found in the congressional series of United States documents as follows:

1900, serial no.4167.
1901, serial no.4361.
1902, serial no.4518.
1903, serial no.4675.
1904, serial no.4831.
1905, serial no.4987.
1906, serial no.5154.
1907, serial no.5373.

1908, serial no.5557.
1909, serial no.5834.
1910, serial no.5960.
1911, serial no.6322.
1912, serial no.6548.
1913, serial no.6755.
1914, serial no.6889.

Russell Sage foundation.

r 361 R91

Study of 985 widows known to certain charity organization societies in 1910, by M. E. Richmond and F. S. Hall. 1913.

With this are bound: The confidential exchange, by M. F. Byington; The formation of charity organization societies in smaller cities, by F. H. McLean; The charity director, by A. E. Sheffield; Efficient philanthropy, by George Hodges.

Russell Sage foundation.

r 361 R91w

What is organized charity? ten pertinent questions briefly answered.

1910.

With this are bound: Relief; a primer for the family rehabilitation work of the Buffalo Charity Organization Society; Treatment; methods employed by organized charity, by P. R. Lee; Passing on as a method of charitable relief.

r 361 S19

San Francisco relief survey; the organization and methods of relief used after the earthquake and fire of April 18, 1906; comp. from studies by C. J. O'Connor, F. H. McLean, H. S. Artieda, J. M. Motley, Jessica Peixotto, M. R. Coolidge. 1913. Survey Associates. (Russell Sage foundation.)

Contents: Organizing the force and emergency methods.—Rehabilitation.—Business rehabilitation.—Housing rehabilitation.—Relief work of the Associated Charities.—The residuum of relief.—Some lessons of the relief survey.—APPENDICES: documents and orders; forms and circulars.

Sears, Amelia.

361 S43

The charity visitor; a handbook for beginners, foreword by C. R. Henderson. 1913. Chicago School of Civics and Philanthropy.

Practical instructions for the social worker, to be observed in visiting the homes of the poor, making records and family budgets, and mastering the details of office routine. Based on methods worked out by the United Charities of Chicago.

Travelers' Aid Society.

r 361 T69

Annual report (9th, 11th), 1914, 1916.

A protective society which offers help and advice to girls, women and boys who are unfamiliar with the emergencies and temptations of travel.

Washington, D. C. Associated Charities.

r 361 W27

Joint year book of the Associated Charities and the Citizens' Relief Association, 1909/10–1914/15.

For reports for 1907/08–1908/09 see preceding catalogue, v.6.

Western Pennsylvania Humane Society.

r 361 W56

Annual report (8th, 11th–40th), 1882/83, 1885/86–1913/14. 1883–1914.

Pittsburgh.

12th–13th, 17th–18th, 24th, 30th–31st, 38th–39th reports wanting.
For report for 1883/84 see preceding catalogue, v.4.

Charity foundations

Rockefeller foundation.

r 361.6 R57an

Annual report, 1913/14. 1915.

The work of this foundation covers research, publication, the establishment and maintenance of charitable, benevolent, religious, missionary and public educational activities, agencies and institutions, and the aid of any such activities, agencies and institutions already established.

Rockefeller foundation.

r 361.6 R57

Information furnished by the Rockefeller foundation in response to questionnaires submitted by United States commission on industrial relations. [1915.]

With this is bound "Statement of John D. Rockefeller, jr. before United States commission on industrial relations, Jan. 25, 1915."

Russell Sage foundation—Education division.

r 361.6 R91e

Activities and publications. [1916?] (Bulletin E.)

Russell Sage foundation—Education division.

r 361.6 R91ep

Pamphlet publications. no.135–date. [1913]–date.

For earlier numbers see Pamphlets of the Child hygiene department, its work being continued by this division and the Recreation department.

no.137 has been issued as Pamphlet publication of the Surveys and exhibits department, no.7 (r 361.6 R91sp).

For contents see Contents book kept at the reference desk.

Russell Sage foundation—Recreation department.

r 361.6 R91r

Department of recreation, Russell Sage foundation; information about its field, publications and methods of co-operation. 1913. (Bulletin R.)

Russell Sage foundation—Recreation department.

r 361.6 R91rp

Pamphlet publications. no.135–date. [1913]–date.

For earlier numbers see Pamphlets of the Child hygiene department, its work being continued by this department and the Education division.

no.143 has been issued as Pamphlet publication of the Surveys and exhibits department, no.9 (r 361.6 R91sp).

For contents see Contents book kept at the reference desk.

Russell Sage foundation—Surveys and exhibits department.

r 361.6 R91sp

Pamphlet publications. no.2–date. 1913–date.

no.2b, 2d, 13, 16, wanting.

no.2d has also been issued as Bulletin of the Library, no.2 (r 016.3 R91).

For contents see Contents book kept at the reference desk.

362 Hospitals. Asylums

Aikens, Charlotte Albina, ed.

362 A29

Hospital management; a handbook for hospital trustees, superintendents, training-school principals, physicians and all who are actively engaged in promoting hospital work. 1911. Saunders.

Series of chapters by different writers, authorities in their separate fields, dealing with all departments of the subject.

New York (state)—Analysis and investigation bureau.

r 362 N26

Eugenics and social welfare bulletin. no.1–7. 1912–16.

Pennsylvania—State dependents commission. r 362 P399
 Pennsylvania dependents; report and recommendations of the State
 dependents commission. 1915.

United States—Census bureau. r 362 U25
 Summary of state laws relating to the dependent classes, 1913. 1914.

Hospitals

Cannon, Ida Maud. 362.1 C17
 Social work in hospitals; a contribution to progressive medicine.
 1913. Survey Associates. (Russell Sage foundation.)

Appendix contains forms and facsimiles.

By an efficient worker in the social service department of the Massachusetts general hospital. Her wide experience and her able presentation of the subject make her book a valuable commentary on the methods of solving the problems of this phase of social betterment, which supplements the regular medical treatment of the hospital and seeks to remedy the social conditions which often lie at the root of physical ills. She shows the need of systematic organization and coöperation between physician, patient, and social worker.

Columbia Hospital, Wilkinsburg, Pa. r 362.1 C72
 Report (24th), year ending Oct. 25th, 1912. [1912.] Pittsburgh.

Indiana University. r 362.1 I242
 Report (1st) of the Social service department, Sept. 20, 1911–June
 15, 1913. 1913.

Massachusetts Charitable Eye and Ear Infirmary— r 362.1 M45
 Social service work committee.
 Report (3d–7th), for 1909/10–1913/14. 1911–15.

New England Moral Reform Society. r 362.1 N2612
 Annual report (71st–72d, 74th–80th), 1907–08, 1910–1915/16.

Passavant Hospital, Pittsburgh. r 362.1 P28
 Annual report (49th), of the Passavant Hospital under the care of
 the Institution of Protestant deaconesses, for 1898/99. 1899.

Report forms part of the "Annals of the Institution of Protestant deaconesses."

The hospital was formerly known as the Pittsburgh infirmary.

For other reports see preceding catalogue, v.4.

Pittsburgh, Eye, Ear and Throat Hospital. r 362.1 P674
 Annual report (13th–15th), 1908/09–1909/12. [Pittsburgh.]
 For earlier reports see preceding catalogue, v.6.

Pittsburgh Free Dispensary. r 362.1 P67
 Annual report (29th, 32d, 34th, 37th–41st) for the years ending
 March 31, 1902, 1905, 1907, 1910–14. Pittsburgh.
 For earlier reports see preceding catalogue, v.4, 6.

St. Margaret Memorial Hospital, Pittsburgh. r 362.1 S146
 St. Margaret Memorial Hospital and training school for nurses.
 1914. Wright Pub. Co. Pittsburgh.

Western Pennsylvania Hospital. r 362.1 W56
 The Western Pennsylvania Hospital in the city of Pittsburgh, 1848–
 1911. [Bragdon. Pittsburgh.]

- Ziegler, Charles Edward, & Billquist, T. E.** qr 362.1 Z58
 Elizabeth Steel Magee Hospital of Pittsburgh; a modern hospital
 for women founded and endowed by C. L. Magee. [1914. Pittsburgh.]
 Reprinted from the "Modern hospital," May 1914, v.2, no.5.

Insane. Feeble-minded

- Haviland, Clarence Floyd.** r 362.2 H36
 Treatment and care of the insane in Pennsylvania; the report of a
 survey of all the institutions in Pennsylvania caring for the insane,
 made for the Public Charities Association of Pennsylvania by C. F.
 Haviland during the six months from June 1 to Dec. 1, 1914. 1915.
 (Pennsylvania, Public Charities Association. Publication no.15.)

- Koren, John.** r 362.2 K38
 Summaries of laws relating to the commitment and care of the in-
 sane in the United States; prepared for the National Committee for
 Mental Hygiene. 1912. (National Committee for Mental Hygiene.
 Publication no.3.)

- Smith, Stevenson, and others.** r 362.2 S66
 Summary of the laws of the several states governing marriage and
 divorce of the feeble-minded, the epileptic and the insane, asexualiza-
 tion, institutional commitment and discharge of the feeble-minded and
 the epileptic. 1914. Bailey and Babette Gatzert foundation for child
 welfare. (Washington (state) University. Bulletin no.82.)

"Bibliography," p.87.

- Yoakum, Clarence Stone.** r 362.2 Y27
 Care of the feeble-minded and insane in Texas. [1914.] University
 of Texas. (Texas University. Bulletin; humanistic series, 1914, no.16.)
 "Bibliography," p.146-156.

- Key, Wilhelmine E.** r 362.3 K23
 Feeble-minded citizens in Pennsylvania; the report of a survey of
 a certain locality comprising about 700 square miles and having a popu-
 lation estimated at 16,000, made by W. E. Key during the four months
 from Aug. 7 to Dec. 6, 1914 for the Public Charities Association of
 Pennsylvania. 1915. (Pennsylvania, Public Charities Association.
 Publication no.16.)

Blind. Deaf and dumb

- Alabama—School for the deaf, Talladega.** r 362.4 A31
 Biennial report of the board of trustees, in charge of the Alabama
 school for the deaf, Alabama school for the blind and the Alabama
 school for the negro deaf and blind, 1908/09-date.

Being the 49th-date annual report.

- Alabama—School for the deaf, Talladega.** r 362.4 A31c
 Circular of information [of the] Alabama schools for the deaf and
 the blind.

- Arkansas**—School for the blind, Little Rock. r 362.4 A72
 Biennial report (21st-date), 1908/09-date. 1911-date.
- The Blind** [quarterly], 1908-15. v.3-v.4, no.72. [1908-15.] r 362.4 B55
- California**—Industrial home of mechanical trades r 362.4 C13
 for the adult blind, Oakland.
 Annual report (19th-date), 1903/04-date. 1904-date.
- California**—Institution for the deaf and the blind, r 362.4 C133
 Berkeley.
 Report (29th-date), for the 24 months ending June 30, 1910-date.
 1911-date.
- Chapin Memorial Home for Aged Blind, Philadelphia.** r 362.4 C36
 Annual report, 1910/11-date.
- Cleveland, Society for Promoting the Interests of the Blind.** r 362.4 C58
 Annual report (3d-date), 1908/09-date.
- Clovernook Home for the Blind, Mt. Healthy, O.** r 362.4 C62
 Report (1st-date), March 14, 1903-date.
- Colorado**—School for the deaf and the blind, r 362.4 C72
 Colorado Springs.
 Circular of information concerning the Colorado School for the
 Deaf and the Blind, Colorado Springs, Colorado. 1909.
- Connecticut Institute for the Blind, Hartford.** r 362.4 C75
 Biennial report, 1906/08-date. 1909-date.
- Idaho**—State school for the deaf and the blind, Gooding. r 362.4 I14
 Bi-ennial report, 1908/10-date.
- Illinois**—Industrial home for the blind, Chicago. r 362.4 I22
 Biennial report (4th-date), of the managing officer [for the two
 years ending June 30], 1910-date. 1911-date.
- Illinois**—School for the blind, Jacksonville. r 362.4 I226
 Biennial report (31st-date), of the managing officer [for the two
 years ending June 30] 1910-date. 1911-date.
- Indiana**—School for the blind, Indianapolis. r 362.4 I242
 Annual report (58th, 62d-date), for the fiscal year ending Oct. 31,
 1904, Sept. 30, 1908-date. 1905-date.
 v.58, 1903/04, title reads "Indiana institution for the education of the blind."
- Industrial Home for the Blind, Brooklyn, N. Y.** r 362.4 I24
 Annual report (16th-date), 1909/10-date. 1910-date.
- Industrial Home for the Blind, Brooklyn, N. Y.** r 362.4 I24c
 Constitution and by-laws. 1905. Eagle Press.
- Iowa**—College for the blind, Vinton. r 362.4 I25
 Biennial report (30th-date), for the biennial period ending June 30,
 1910-date.
- Michigan**—School for the blind, Lansing. r 362.4 M66
 Biennial report (15th-date), of the board of control, July 1, 1908-
 date. 1911-date.

- Minnesota**—School for the blind, Fairbault. r 362.4 M72
 Biennial report (16th-date), 1908/09-date.
- Missouri**—School for the blind, St. Louis. r 362.4 M74
 Biennial report (27th-date), 1909-date. 1911-date.
- Missouri**—School for the blind, St. Louis. r 362.4 M74s
 A state school for sightless children.
- Montana**—Schools for deaf, blind and backward children, Boulder. r 362.4 M84
 Annual report (16th-date), 1909/10-date. 1911-date.
- National Association of the Deaf.** r 362.4 N15
 Proceedings of the 9th convention of the National Association, and the 3d World's Congress of the Deaf, 1910. 1912.
- New Mexico**—Institute for the blind, Alamogordo. r 362.4 N2613
 Annual report (4th-date), for the year ending June 7, 1910-date.
 Text in English and Spanish.
 5th report is biennial, for the two years ending June 7, 1912.
- New York (state)**—Blind, Commission on the. r 362.4 N261
 Report of the commission of 1906 to investigate the condition of the blind in the state of New York. 1907.
- New York (state)**—School for the blind, Batavia. r 362.4 N2614
 Annual report (42d-date), 1909/10-date. 1911-date.
- New York Association for the Blind.** qr 362.4 N26
 Report (6th-10th), 1911/12-1915/16.
 For earlier reports see preceding catalogue, v.6.
- New York Institute for the Education of the Blind.** r 362.4 N2612
 Annual report (75th-date), 1909/10-date. 1911-date.
 Previous to August 1912 the name of this institution was "New York Institution for the Blind."
- North Carolina**—State school for the blind and the deaf, Raleigh. r 362.4 N45
 Report [biennial], 1908/09-date. 1910-date.
- North Dakota**—Blind asylum, Bathgate. r 362.4 N454
 Biennial report (2d-date), for the period ending June 30, 1910-date. 1910-date.
- Ohio**—Commission for the blind. r 362.4 O183
 Report (1st-date), 1908-date. 1909-date.
- Ohio**—State school for the blind, Columbus. r 362.4 O18
 Annual report, 1907/09-date. 1910-date.
 Reports for 1907/09-1909/11 were biennial.
- Oregon**—Institute for the blind, Salem. r 362.4 O28
 Biennial report (17th-date), 1908/09-date. 1910-date.
- Pennsylvania Association for the Blind.** r 362.4 P3994
 Annual report (1st-date), 1910-date. [1910-date. Pittsburgh?]
- Pennsylvania Association for the Blind.** r 362.4 P3994b
 By-laws, adopted Jan. 6, 1910, amended Jan. 11, 1912, Jan. 8, 1914. [1914. Pittsburgh?]

Pennsylvania Institution for the Instruction of the Blind, Overbrook, Pa. r 362.4 P3992ab

About a school for children and youth who have bad eyesight or who are blind. 1908.

Pennsylvania Institution for the Instruction of the Blind, Overbrook, Pa. qr 362.4 P3992

Annual report (78th-date), 1909/10-date. 1911-date.

Pennsylvania Institution for the Instruction of the Blind, Overbrook, Pa. r 362.4 P3992d

[Description of the plant and organization of the school. 1901.]

Pennsylvania Institution for the Instruction of the Blind, Overbrook, Pa. r 362.4 P3992s

Some questions answered for the parents of children and youth who have bad eye-sight or who are blind. 1916.

Pennsylvania Society for the Advancement of the Deaf. r 362.4 P3995

[Reports], 1904/05-1910/11. [1905?]-11.

With this is bound the Annual report (1st-9th), 1902/03-1910/11, of the Home for Aged and Infirm Deaf, Doylestown, Pa.

Pennsylvania Working Home for Blind Men, Philadelphia. r 362.4 P3993

Report (29th-date), 1908/09-date. 1909-date.

South Dakota—School for the blind, Gary. r 362.4 S72

Biennial report (6th-date), for the period ending June 30, 1910-date.

Tennessee—School for the blind, Nashville. r 362.4 T29

Biennial report (34th-35th) [for the two years ending Dec. 19, 1910-12]. 1911-13.

Texas—State school for the blind, Austin. r 362.4 T32

Annual report (53d-date), 1909/10-date. 1910-date.

Texas—State school for the blind, Austin. r 362.4 T32c

Catalogue and announcement of the Texas State School for the Blind, Austin, Texas,

Virginia—School for colored deaf and blind children, Newport News. r 362.4 V349

Annual report (1st-date), 1908/09-date.

Virginia—School for the deaf and the blind, Staunton. r 362.4 V34

Biennial report, 1907/08-date.

Volta Bureau, Washington, D. C. qr 362.4 V37

Periodicals devoted to the interests of the deaf, by Fred De Land, librarian. [1913.]

"Preliminary pages of a catalogue of the library of the Volta bureau," p.16.

"A rearrangement of the list, with additions, appears in the Volta review, v.16, no.10, Oct. 1914."

qr 362.4 V378

Volta review; published monthly for the increase and diffusion of knowledge relating to the deaf, 1914. v.16. [1914.]

- Wisconsin**—School for the blind, Janesville. r 362.4 W81
 Biennial report (13th-date), 1906/07-date. 1909-date.
- Wisconsin**—Workshop for the blind, Milwaukee. r 362.4 W812
 Biennial report, 1904-date. 1905-date.
 First report covers the six months ending June 30, 1904.

Paupers. The aged

- United States**—Census bureau. qr 317.3 U25C12sp v.35
 Paupers in almshouses, 1910. 1915. (In its Special reports, v.35.)
- Home for Aged Protestants, Pittsburgh.** r 362.6 H757
 Annual report (30th), 1912. 1913. Pittsburgh.
 For earlier volumes see preceding catalogue, v.6.

Children. Child welfare

Bibliography

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 Child welfare; a list of books and references to periodicals in the Chicago Public Library. 1911.
- McMurtrie, Douglas Crawford, comp.** qr 016.3627 M21b
 Bibliography of official publications of American institutions for cripples. 1914. Privately printed.
- McMurtrie, Douglas Crawford, comp.** r 016.3627 M21
 Bibliography of the education and care of crippled children; a manual and guide to the literature relating to cripples, together with an analytical index. 1913. Privately printed.
- St. Louis**—Public library. qr 016.3627 S14
 List of books and articles on child welfare, and A reading list for use with the Junior Civic League. 1912.

General works

- Blascoer, Frances.** r 362.7 B54
 Colored school children in New York; ed. by E. H. Johnson. 1915.
Contents: Introduction.—Scope and method of investigation.—SURVEY OF GENERAL CONDITIONS: Schools; Social agencies.—INTENSIVE STUDY: Neighborhood conditions; School children; Occupations; Family incomes.—NEEDS AND RECOMMENDATIONS: School needs; Social needs; Summary.—APPENDICES: Thirty-eight cases from the difficult children group; Directory of social agencies for colored people.
 Published by the Public Education Association of the City of New York.
- Boston Children's Aid Society.** r 362.7 B64
 Annual report (40th-52d), 1903/04-1915/16.
- Bowen, Mrs Louise Hadduck (de Koven).** 362.7 B66
 Safeguards for city youth at work and at play, with a preface by Jane Addams. 1914. Macmillan.
 Written from an intimate knowledge of conditions acquired by long and devoted social service. Describes graphically the sordid and immoral influences which lie in the path of city youth in their search for amusement and occupation, and the efforts of the Juvenile Protective Association of Chicago to remove such influences by legal and civic safeguards.

Chicago Child Welfare Exhibit, 1911.

362.7 C432c

The child in the city; a series of papers presented at the conferences held during the Chicago Child Welfare Exhibit. 1912. Chicago School of Civics and Philanthropy.

Contents: Personal service.—Physical care.—The school and the child.—Special groups of children.—The working child.—The law and the child.—Libraries and museums.—Social and civic problems of childhood.—The uncompleted task.

The same r 362.7 C432c

"Many of these fifty and more papers, largely by Chicago civic, social and educational workers, apply specially to conditions in Chicago, but a goodly number are general in character, outlining avenues of activity or recording important work being done for the child's welfare." *A. L. A. booklist, 1912.*

Chicago, Child Welfare Exhibit, 1911.

r 362.7 C432p

[Programs and circulars. 1911.]

Chicago School of Civics and Philanthropy.

r 362.7 C4322

City welfare aids and opportunities. 1911. (Bulletin no.13, Oct. 1911.)

Contains a section on Child welfare exhibits.

Children's Home Society of Pennsylvania.

r 362.7 C436

Annual report, 1909/10-1913/14.

For reports for 1906/07-1908/09 see preceding catalogue, v.6.

Conference on the Prospective Work of Carson

362.7 C74

and Ellis Colleges, Philadelphia, 1915.

Care and training of orphan and fatherless girls; proceedings of a conference held at Philadelphia, Oct. 13-14, 1915. [1915.] Wm. F. Fell Co.

The same r 362.7 C748

Conference was called by the trustees of the two colleges for the purpose of obtaining counsel and advice on the administration of the two institutions. As vocational education is an essential part of their purpose, the discussions were devoted to this subject.

Engel, Sigmund.

362.7 E63

Elements of child-protection; tr. from the German by Eden Paul. 1912. Macmillan.

"The modern doctrines of child-protection are, according to Dr. Engel, the joint product of two systems of thought—the Socialist and the Darwinian, and it is from that double standpoint that he surveys the problems of child guardianship, nurture, and education. His work consists of an orderly statement of these problems and the conditions that create them, together with a summary of the means proper, in his opinion, for their solution." *Athenaeum, 1912.*

Forbush, William Byron.

362.7 F75

The coming generation. 1912. Appleton. (Social betterment series.)

Contents: Betterment through the home.—A better start.—Betterment through education.—Betterment through prevention.—Betterment through religious and social nurture and service.—A program for the betterment of boys and girls.

"Bibliographies," p.386-390.

"Exceptionally sane and interesting effort to give an account of the forces that are working for the betterment of American young people." *Outlook, 1912.*

Industrial Home for Crippled Children, Pittsburgh.

r 362.7 I24

Annual report (4th, 6th-date), 1906/07, 1908/09-date. [1907-date.]

Pittsburgh.

For report for 1907/08 see preceding catalogue, v.6.

- Kansas City (Mo.) Child Welfare Exhibit, 1911.** r 362.7 K12
The Kansas City child; a handbook [and circulars].
- Mangold, George Benjamin.** 362.7 M33p
Problems of child welfare. 1914. Macmillan. (Social science textbooks.)
Contents: The conservation of life.—Health and physique.—Training and education.—Child labor.—Juvenile delinquency.—Problems of dependent children.
"Selected bibliography," p.493-511.
- Manitoba—Neglected children, Department of.** qr 362.7 M33
Annual report (3d-4th), 1910-11. [1911-12.]
Report for 1910-11 has title "Citizens in the making."
- Massachusetts—Support of dependent minor children** r 362.7 M45
of widowed mothers, Commission on.
Report, Jan. 1913. 1913.
- Montreal, Child Welfare Exhibition, 1912.** qr 362.7 M87
Child Welfare Exhibition, Montreal, Oct. 1912; souvenir handbook. 1912.
- National Decorating Co. Providence, R. I.** r 362.7 N155
[Photographs showing exhibit material used in the Rhode Island child welfare exhibit, Providence, R. I., 1913. 1913.]
- New York Child Welfare Exhibit, 1911.** r 362.7 N26
Handbook. [1911.]
- Pennsylvania, Public Charities Association.** r 362.7 P399
Report of the Allegheny county committee on subsidized institutions for the care of dependent, delinquent and crippled children; investigation made and report written for the committee by Abraham Oseroff, Feb. 1915. 1915. [Pittsburgh?]
- Pittsburgh and Allegheny Home for the Friendless.** r 362.7 P674
Annual report (43d), 1903/04. [1904.] Allegheny.
For earlier reports see preceding catalogue, v.4.
- Reeves, Edith.** 362.7 R288
Care and education of crippled children in the United States, introduction by H. H. Hart. 1914. Survey Associates. (Russell Sage foundation.)
Gives concrete information respecting the work of various hospitals and asylum homes. Thirty-seven institutions are treated fully and as many others are described more briefly. Especially useful for those who are considering the organization of work for crippled children. Freely illustrated by plans and photographs.
- Slingerland, William H.** 362.7 S63
Child welfare work in Pennsylvania; a co-operative study of child-helping agencies and institutions; directed in co-operation with the officers and a committee of the Pennsylvania State Conference of Charities. 1915. (Russell Sage foundation.)
"Alphabetical list of agencies and institutions," p.315-325.
The same r 362.7 S63
- United States—Children's bureau.** r 362.7 U25an
Annual report (1st-date) for the fiscal year ended June 30, 1913-date.

- United States**—Children's bureau. r 362.7 U25c
 Child-welfare exhibits; types and preparation, by A. L. Strong. 1915.
 (Miscellaneous series, no.4.)

With this is bound its "Baby-week campaigns; suggestions for communities of various sizes" (Miscellaneous series, no.5).

- United States**—Children's bureau. r 362.7 U25
 The children's bureau; establishment of the bureau. [1912.] (Miscellaneous series, no.1.)

- United States**—Children's bureau. r 362.7 U25d
 Dependent, defective and delinquent classes series. no.1-2. 1914-15.
 no.1 title reads "Dependent children series."
 For contents see Contents book kept at the reference desk.

- Washington (state) University.** r 362.7 W27
 Annual report of the Bailey and Babette Gatzert foundation for child welfare (1st), 1911/12. [1912.]

Day nurseries. Street life

- Federation of Day Nurseries.** r 362.71 F311
 Leaflet. no.2-3, 5-7.
 no.2. Dietary for infants and young children.
 no.3. A day in a day nursery and problems of the day nursery.
 no.5. For what does the day nursery stand?
 no.6. The duties and privileges of a manager.
 no.7. Duties of a matron.

- Federation of Day Nurseries.** r 362.71 F31
 Report of the conference (4th-7th), 1900, 1902, 1905-06.

- Mothers' Assistance of Allegheny County.** r 362.8 M93
 Report of Allegheny county trustees of Mothers' Assistance fund, Nov. 25th, 1913 to Jan 16th, 1915. [1915.] Pittsburgh.

- Davis, Philip.** 362.84 D32
 Street-land; its little people and big problems [written with the assistance of] Grace Kroll. 1915. Small.
Contents: In street-land.—Street hazards.—Night children.—School deserters.—Vacation time.—Child workers in the streets.—Child workers and vagrants.—Street work; the story of an experiment.—Street life; a programme.
 "Bibliography," p.277-291.

363 Political clubs

- Buck, Solon Justus.** 363 B85
 The Granger movement; a study of agricultural organization and its political, economic and social manifestations, 1870-1880. 1913. Harvard University Press. (Harvard historical studies.)

"Bibliography," p.315-351.

Awarded the Toppin prize for the year 1910-11.

Deals principally with that period in the history of the Grange in which the association assumed a temporary political importance and brought about legislation which gave relief to the farmer from exorbitant railway rates and other commercial extortions. Considers more briefly the earlier and the later history of the organization.

- Intercollegiate Civic League.** r 363 I24
 Report of the convention, 1912-14.
 For reports for 1908-11 see preceding catalogue, v.6.
- New York, City History Club.** r 363 N26
 Handbook of civics club work, with suggestive programs for several types of clubs; comp. by Charles Kandel. 1914.
- Watterson, Henry.** qr 363 W32
 History of the Manhattan Club; a narrative of the activities of half a century, 1865-1915. 1915. [Manhattan Club.]

364 Criminal classes. Reformatories

- Allegheny county, Pa.**—Court of quarter sessions. r 364 A42
 Report of the probation officer, 1911-16. [1913-16.]
- Breckinridge, Sophonisba Preston, & Abbott, Edith.** 364 B72
 The delinquent child and the home, with an introduction by J. C. Lathrop. 1912. Charities Pub. Committee. (Russell Sage foundation.)
 This inquiry into the work of the juvenile court of Cook county, Ill. was undertaken with two aims in view: first, a better understanding of the needs of all children, based upon a more exact knowledge of the conditions surrounding the special group studied; second, a more intelligent judgment with reference to the possible usefulness of the juvenile court in serving children, and the lines along which that institution should be developed. The appendixes include legal problems, abstract of juvenile court laws, citation of delinquent cases, and schedules used in the inquiries.
- Chicago**—City council—Committee on crime. r 364 C43
 Report. 1915.
 "Bibliography," p.195-196.
- Coulter, Ernest Kent.** 364 C83
 The children in the shadow, with an introduction by J. A. Riis. 1913.
 McBride.
Contents: The procession.—The new life-saving stations.—Cradles of delinquency.—The stolen heritage.—The mills of greed.—The hoppers.—The stranded host.—Labeling the business.—The delinquent parent.—The child of bondage.—The nursery for little thieves.—The mental misfits.—Big brothers and big sisters.—The awakening.
 "As clerk of the Children's Court in Manhattan for ten years he had the unique opportunity of looking into the faces of a procession of 100,000 dependent, neglected and delinquent children as they filed by the judge and told their stories...He shows how crowded streets, lack of play space, poverty, sickness, insanitary houses, criminal companions and parental neglect provide a fruitful soil in which to breed neglected and delinquent boys and girls...As a means of helping individual boys, who need the personal touch of a friend right now, Mr. Coulter started the Big Brother Movement, which is spreading all over the country." *Survey*, 1913.
- Devon, James.** 364 D49
 The criminal & the community, with an introduction by A. F. Muri-son. 1912. Lane.

Dr Devon speaks from the authority of many years of personal experience as medical officer in Scottish prisons and poorhouses, which he utilizes for a highly instructive, and evidently clear-sighted account of the motives and conditions of crime, more particularly of the conditions leading to petty crime and first offenses. He is the enemy of all institutionalism and of all study of men by the method of statistics and averages. Arguing from a purely utilitarian standpoint, he contends that imprisonment is a flat failure. *Condensed from Nation*, 1912.

Fenton, Frances.

r 364 F36

Influence of newspaper presentations upon the growth of crime and other anti-social activity. 1911. Chicago University Press.

Thesis for Ph. D., University of Chicago.

Study of the suggestive power of the newspaper through its account of crimes and immorality.

George, William Reuben, & Stowe, L. B.

364 G31c

Citizens made and remade; an interpretation of the significance and influence of George Junior Republics. 1912. Houghton.

"Records the successful progress of the self-government movement among children and prisoners in various schools and penitentiaries throughout the country, but particularly in the George Junior Republic, in order to show that only through the application of principles recognizing the qualities of independence, responsibility and self-respect can the highest ideals of American democracy be preserved. An interesting, constructive work, which concludes with an outline of a new penal method." *A. L. A. book-list, 1912.*

Healy, William.

364 H38

The individual delinquent; a text-book of diagnosis and prognosis for all concerned in understanding offenders. 1915. Little.

"Bibliography," p.791-808.

Result of five years of research which the author carried on as director of the Juvenile Psychopathic Institute of Chicago.

"Three-fourths of its pages are devoted to descriptions of individual cases, grouped under many broadly defined causal types, which should make the volume a valuable text- and reference-book." *Nation, 1915.*

International Prison Commission.

r 364 I24

Bulletin de la Commission Pénitentiaire Internationale. 6th ser. v.I-4, in 2. 1910.

Ives, George.

364 I33

History of penal methods; criminals, witches, lunatics. [1914.]

Paul.

A really important contribution to the permanent literature of criminology by a distinguished criminologist. Bears evidence of wide, unhurried reading and careful thought. Mr Ives has studied at first hand the penal systems of history and is reluctant to record any impression or idea without full warrant of an authentic document. The cruel annals of the English penal code are to-day incredible reading and Mr Ives has done well to back his evidence with incontestable proof. His study marches with inevitable logic to this main conclusion: that intelligent mercy pays society a hundredfold. Especially valuable are those chapters in which he insists on the necessity for classifying crime and criminals. *Condensed from Saturday review, 1914.*

MacBrayne, Lewis Edward, & Ramsay, J. P.

364 M12

One more chance; an experiment in human salvage. 1916. Small.

The value of probation for older as well as for first offenders is brought out in this series of stories drawn from the experiences of Mr Ramsay, a probation officer in Massachusetts.

MacDonald, Arthur.

qr 364 M14as

Assassins of rulers. [1911?]

Reprinted from "Journal of American Institute of Criminal Law and Criminology," v.2, no.4.

Pennsylvania Training School, Morganza.

r 364 P399

Biennial report of the officers from Aug. 31, 1910 to Aug. 31, 1914.

1912-14.

This school was opened in 1854 as the House of Refuge of Western Pennsylvania, in 1876 the name was changed to Pennsylvania Reform School, and, in 1912 again changed to Pennsylvania Training School.

For earlier reports see preceding catalogue, v.6.

Robinson, Louis Newton.

r 364 R55

History and organization of criminal statistics in the United States. 1911. Houghton. (Hart, Schaffner & Marx prize essays in economics.)

Considers the criminal statistics collected by the Federal government, then those collected by the states, and outlines a scheme for their reorganization.

Tarde, Gabriel.

364 T19

Penal philosophy; tr. by Rapelje Howell, with an editorial preface by Edward Lindsey and an introduction by R. H. Gault. 1912. Little. (Modern criminal science series.)

The author's long career as a criminal magistrate provided ample opportunity for first-hand knowledge of the criminal, which he utilized not only for the purpose of improving criminal procedure but for developing a philosophy of crime. He opposed strongly the anthropological theory of crime held by Lombroso and his school, upholding instead the social causes and finding in his theory of imitation a strong factor in producing crime. He discusses at much length the problem of the freedom of the will.

United States—Justice department.

r 364 U25

Rules and regulations governing the paroling of United States prisoners from United States penitentiaries, Atlanta, Georgia, Leavenworth, Kansas, McNeil Island, Washington, National Training School for Boys, Washington, D. C., Girls Reform School, Washington, D. C. and state institutions, 1910. 1910.

365 Prisons

Allegheny county (Pa.) Prison Society.

r 365 A422

Annual report (8th), 1873/74. 1875. Pittsburgh.

Chicago—Civil service commission.

qr 365 C43

Report on the investigation of prison labor and management, House of correction, city of Chicago; inquiry conducted at the request of the Committee on finance, Dec. 11, 1913 to March 24, 1914. [1914.]

Doty, Madeleine Zabriskie.

365 D75

Society's misfits. 1916. Century.

Pt.1 describes the author's experience in the New York state prison for women, where as a voluntary inmate she spent a week during which her identity was concealed from the officials and matrons. Pt.2 records life in children's reformatories and is based on letters, and direct talk with convicts who had been institutional children.

Lowrie, Donald.

365 L96

My life in prison. 1912. Kennerley.

The author served a fifteen-year sentence for burglary in the California prison of San Quentin. He entered the penitentiary a despairing, rather than a desperate, criminal; but, instead of coming out hardened by his degrading and embittering experiences, he "found" not only himself and his own humanity, but the key to the humanity of his fellow sufferers and emerged at once a just judge, an understanding interpreter and a patient disseminator of the growing gospel of civilization through service. *Condensed from Life, 1912.*

Lowrie, Donald.

365 L96m

My life out of prison. 1915. Kennerley.

"Recounts the writer's experiences as lecturer and in work for prison reform and with the Mutual Aid and Employment Bureau, after his release on parole from ten years' imprisonment at San Quentin, Cal., 1911. Will be read with interest in connection with his more important earlier book, *My life in prison* [365 L96], an honest and enlightening but rather bitter account of his prison term and prison conditions." *A. L. A. booklist, 1915.*

365 O26

An open letter to society from convict 1776, with an introduction by Maud Ballington Booth. 1911. Revell.

A remarkable document. The author explains that he is serving (1911) a sentence for the eighth time and hopes to be free in two or three years. For the rest, his account is utterly impersonal, save that the examples given are said to be the result of direct observation. His main contention is that our prisons, as they are now conducted, endanger society more than they protect it. *Condensed from Nation, 1912.*

Osborne, Thomas Mott.

365 O29s

Society and prisons. 1916. Yale University Press.

Contents: Crime and criminals.—Courts and punishment.—The old prison systems.—The Mutual Welfare League.—The new penology.

"A constructive programme for dealing with the prison problem based on his own experience and observations." *Dial, 1916.*

Osborne, Thomas Mott.

365 O29

Within prison walls; being a narrative of personal experience during a week of voluntary confinement in the state prison at Auburn, New York. 1914. Appleton.

"A thrilling tale and a plea for radical prison reform, all the stronger for not forcing the reform note." *Nation, 1914.*

Author is (1914) chairman of the New York state prison reform commission.

Taylor, Winifred Louise.

365 T25

The man behind the bars. 1914. Scribner.

Appeared, in a condensed form, in "Scribner's magazine," v.54, Oct.-Dec. 1913.

"For many years [the author] has studied prisoners and made friends of them... Her experience makes her indignant at our ruthless legal methods, especially in the cities. She dwells on the cruelties and crudities of prison discipline, the enforced speech of the 'third degree,' the more deadly enforced silence of the cells and the prison-yard. Of the more humane methods now coming into use, of the probation system, and so on, she speaks with hopefulness." *Nation, 1914.*

Whitin, Ernest Stagg.

r 305 N26 v.3

The caged man; a summary of existing legislation in the United States on the treatment of prisoners. 1913. (In New York (city), Academy of Political Science. Proceedings, v.3, no.4.)

366 Secret societies

Albright, Charles.

r 366 A34

The great Molly Maguire trials in Carbon and Schuylkill counties, Pa.; brief reference to such trials, and arguments of Gen. Charles Albright and F.W. Hughes in the case of the commonwealth vs. James Carroll, James Roarity, Hugh McGehan and James Boyle indicted for the murder of B. F. Yost. 1876.

Kehoe, John, defendant.

r 366 K15

Report of the case of the commonwealth vs. John Kehoe et al., members of the Ancient Order of Hibernians, commonly known as "Molly Maguires," indicted in the Court of quarter sessions of the peace for Schuylkill county, Penna., with the testimony and arguments of counsel in full, by R. A. West. 1876.

Sommerfeld, Adolf.

366 S69

Die verbrecherschule; das geheimnis der Kamorra.

Freemasons

Freemasons—Grand lodge of Pennsylvania. r 366.1 F91an

Ancient documents relating to the A. and A. Scottish rite in the archives of the R. W. Grand lodge of Free and accepted masons of Pennsylvania, with annotations by J. F. Sachse. 1915.

Freemasons—Grand lodge of Pennsylvania. r 366.1 F91p

Proceedings of the Grand lodge of Pennsylvania at its celebration of the 125th anniversary of its independence, held in the Masonic Temple, Philadelphia, on Monday, Sept. 25, 1911, with accounts of the service at Christ Church, Philadelphia, on Sunday, Sept. 24th and the laying of the corner-stone of Grand lodge hall at the masonic homes at Elizabethtown, on Tuesday, Sept. 26, 1911. 1912.

Freemasons—Grand lodge of Iowa. r 366.1 F913zh

History of Grand lodge of Iowa, A. F. and A. M. 2v. in 3. 1910-15.

v.1. 1844-65.

v.2, pt.1-2. 1865-1913.

Freemasons—Pittsburgh. Lodge no.45. qr 366.1 F9133

History of Lodge no.45, F. & A. M., 1785-1910 [memorial volume, 125th anniversary]. 1912. Pittsburgh.

Harper, Samuel.

r 366.1 H28a

Address delivered at the 10th anniversary of the constituting of Tancred commandery, no.48, K. T. of Pittsburgh, Tuesday, July 17th, 1883. 1884. Eichbaum. Pittsburgh.

Binder's title reads "Tancred."

Mitchell, James W. S. 366.1 M74

History of freemasonry. 2v. [1910.] Macoy Pub. and Masonic Supply Co.

v.2 title reads "History of freemasonry and masonic digest."

367 Social clubs

Opheleum Fraternity, Pittsburgh. r 367 O262

History of Opheleum Fraternity, 1903-1913. [1914.] Privately printed. [Pittsburgh.]

A society of young men living in the West End of Pittsburgh.

Pittsburgh, University Club. r 367 P67u

University Club, Pittsburgh, 1913. [1913. Reed. Pittsburgh.]

368 Insurance

General

r 368 A61

Annual cyclopedia of insurance in the United States, 1890-1894/95, 1897/98, 1916; established by H. R. Hayden. 1891-1916.

Dunham, Howard P. *comp.*

368 D92

Business of insurance; a text book and reference work covering all lines of insurance, written by 80 eminent experts. 3v. 1912. Ronald Press Co.

v.1. Introduction.—Fire insurance.—Life insurance.

v.2. Accident insurance.—Liability insurance.—Special insurance.

v.3. General.—Forms and precedents.

"Bibliography" at the end of many of the chapters.

Hoffman, Frederick Louis.

368 H67i

Insurance science and economics; a practical discussion of present-day problems of administration, methods and results, for insurance officials, managers, agents, merchants, lawyers, teachers, students and others interested in the broader aspects of insurance as a business in its relation to public welfare and the state. 1911. Spectator Co.

"List of references" at the end of many of the chapters.

Huebner, Solomon S.

368 H88

Property insurance, comprising fire and marine insurance, corporate surety bonding, title insurance and credit insurance. 1911. Appleton.

"Bibliography on property insurance," p.389-403.

"Prepared chiefly as a text book for students of insurance in colleges and universities, and well adapted to this use. It will be helpful also to the practical insurance man for reference in office or field work... Fully illustrated with forms, sample clauses and tables." *A. L. A. booklist*, 1911.

r 368 I24

Insurance year book, 1874, 1888/89-1890/91, 1891/92, pt.1-1911/12, pt.1, 1916/17. 1874-1916.

1874-1890/91 issued in one volume. Beginning with year book for 1891/92 issued in two parts; pt.1 containing Life, casualty and miscellaneous insurance, pt.2 Fire and marine insurance.

For volume for 1883/84 see preceding catalogue, v.4.

Massachusetts—Insurance department.

r 368 M45

Annual report (13th, pt.2-52d, pt.2, 53d, pt.1-2, 54th, pt.2, 55th, pt.2, 56th-61st), 1867-1916. 1868-1916.

Report is issued in two parts; pt.1 containing Fire and marine insurance, pt.2 Life, accident and miscellaneous insurance.

New York, Insurance Society.

r 368 N2612

[Addresses delivered before the Insurance Society of New York.] 1915.

Contents: Adjustment of stock losses; an address written for the 112th meeting of the Insurance Society of New York on May 18th, 1915, by D. C. Brown.—Non-liability matter; an address delivered before the 111th meeting of the Insurance Society of New York on Tuesday, May 4, 1915, by W. B. Ellison.

Pennsylvania—Insurance department.

r 368 P39i

Insurance laws of Pennsylvania, 1912-13. 1912-13.

For earlier volumes see preceding catalogue, v.6.

Zartman, Lester William, ed.

368 Z34f2

Property insurance; rev. by W. H. Price. 1914. Yale University Press. (Yale readings in insurance.)

Includes chapters on factory mutual fire insurance, marine, steam boiler, employers' liability, government and workingmen's insurance.

Life

Alexander, William, *secretary, Equitable Life Assurance Co.* 368 A37s

The successful agent; practical hints for the seller of life insurance. 1907. Spectator.

Association of Life Insurance Presidents. r 368 A84

Proceedings of the annual meeting (6th-10th), 1912-16.

For earlier volumes see preceding catalogue, v.6.

qr 368 B46

Best's insurance reports (life) upon all legal reserve companies transacting business in the United States and Canada, and fraternal societies and assessment associations operating in the United States, 1906/07-1907/08, 1909/10-1910/11. v.1-2, 4-5. 1906-10. Best Reporting Co.

Hudnut, James M.

q 368 H884

Studies in practical life insurance; an examination of the principles of life insurance as applied in the policies, reports, agency and office methods of the New-York Life Insurance Company. 1911. New-York Life Insurance Co.

Contains also a chapter on the "Personal and public aspects of life insurance," by D. P. Kingsley and an appendix containing the most important sections of the insurance law of New York.

Huebner, Solomon S.

368 H881

Life insurance; a textbook. 1915. Appleton.

Hunter, Arthur.

r 368 H94

Can insurance experience be applied to lengthen life? effect of alcoholic beverages, overeating, undereating, social diseases and occupation upon length of life, as disclosed by a scientific investigation of 2,000,000 insured lives. [1914.] (Betterment of life insurance service.)

Address delivered at the eighth annual meeting of the Association of Life Insurance Presidents at New York, December 10, 1914.

Jack, Alexander Fingland.

368 J12

Introduction to the history of life assurance. 1912. Dutton.

"List of works referred to in the notes," p.246-256.

Scholarly yet readable treatise on the precursors of life insurance. Beginning with the Roman Collegia, mutual societies which provided their members with fitting burial, the author considers in detail the gild system of the middle ages, the development of rents or annuities, the institution of the *mons*, gambling insurance, the theories of Holtzschuher, Obrecht and Tonti, the growth of friendly societies, and finally, the establishment of the Equitable Society in England in 1762, which marks the beginning of modern life insurance.

Johnston, George W.

r 368 J36

Some evolutionary developments in life insurance; an address delivered before the 93d meeting of the Insurance Society of New York on Tuesday, Jan. 27th, 1914. [1914.]

Kingsley, Darwin Pearl.

368 K27

Militant life insurance, and other addresses. 1911. New York Life Insurance Co.

Addresses on life insurance by the president (1912) of the New York Life Insurance Company.

- Mudgett, Bruce D.** 368 M94
Total disability provision in American life insurance contracts. 1915.
Thesis for Ph. D., University of Pennsylvania.
- National Association of Life Underwriters.** r 368 N15
Proceedings of the annual convention (1st-4th, 6th-7th, 9th-10th, 12th, 17th-23d), 1890-93, 1895-96, 1898-99, 1901, 1906-12.
Proceedings of (1st) convention, for 1890, title reads "Proceedings of the first convention and organization of the National Association of Life Underwriters."

Industrial

- Department reports of Pennsylvania.** r 368 D43
Manual of compensation insurance; rules, classifications and rates [of the Pennsylvania] state workmen's insurance board. 1916.
Issued as supplement to "Department reports of Pennsylvania," v.2, no.6, Feb. 11, 1916.

369 Patriotic and other societies

- r 369 A51a
Daughters of the American Revolution magazine [monthly], July 1892-98, July 1913-date. v.1-13, 43-date. 1892-date.
Published by the Daughters of the American Revolution.
v.1-13, July 1892-1898, title reads "American monthly magazine."
For v.14-42 see preceding catalogue, v.1, under title "American monthly magazine."
- New York, Century Association.** r 369 N2613a
Reports, constitution, by-laws and list of members for the year 1911-15. 1912-16.
- Society of Mayflower Descendants, Ohio.** r 369.124 S670
[Handbook.] 1913.
- Order of the Founders and Patriots of America.** r 369.125 O28a
Register, 1911. 1911.
- Colonial Society of Pennsylvania.** * qr 369.127 C72a
Charter, constitution, by-laws, officers, committees, members, etc., 1914. 1914.
For volumes for 1902, 1908 see preceding catalogue, v.4, 6.
- Pennsylvania Society of Colonial Governors.** r 369.1291 P39a
Charter, by-laws, members, list of colonial governors. 1911.
- Sons of the American Revolution, Old Essex chapter,** r 369.133 S690l
Lynn, Mass.
Application, charter, constitution, by-laws, chronicles and list of members. 1915.
- Sons of the Revolution, Kentucky.** r 369.134 S69k
Year book, 1894-1913, and catalogue of military land warrants granted by the commonwealth of Virginia to soldiers and sailors of the Revolution; comp. by S. M. Wilson from records in the State land office of Kentucky. 1913.
- Daughters of the American Revolution, Merion chapter.** r 369.135 D28m
Real daughters of the American revolution, by M. B. Harvey, historian of Merion chapter [Bala, Pa.]. 1912.

Grand Army of the Republic. r 369.151 G77a
Journal of the annual session (36th-48th) of the national encampment, 1912-14. 1912-14.

For earlier volumes see preceding catalogue, v.1, 6.

Grand Army of the Republic, Department of Pennsylvania. r 369.151 G77pd

Roster of Duquesne post no.259, Department of Pennsylvania, Grand Army of the Republic, August 1912. 1912. Pittsburgh.

Grand Army of the Republic, Department of Pennsylvania. r 369.151 G77pr

Roster [showing membership for year ending Dec. 31, 1911. 1912].

For volumes for 1907-08 see preceding catalogue, v.6.

Woman's Relief Corps, auxiliary to the G. A. R. r 369.161 W85a

Journal of the annual convention (8th-30th), 1890-1912. 12v. 1890-1912. Stillings.

Title of 29th convention reads "Roll of members, address of national president and report of officers."

Pittsburgh, Indiana State Society. r 369.19 I24

Annual dinner and meeting (1st), Nov. 1, 1912. [1912?]

With this are bound "Suggested constitution and by-laws" and "Names & addresses of people reported to have lived in Indiana or related to those from Indiana, Jan. 1913."

Forbush, William Byron, & Masseck, F. L. 369.42 F75

The boys' round table; a manual of the international Order of the Knights of King Arthur. 1909. Pilgrim Press.

"Books, pictures and games," p.125-141.

Describes the purpose, the organization, and the ritual of a boys' society modeled on the conclave of the Round table and pledged to the same chivalrous ideals.

Boy scouts

Baden-Powell, Sir Robert Stephenson Smyth. j 369.2 B14b

Boy scouts beyond the seas; "my world tour." 1913. Pearson.

Account of the author's trip around the world and his experiences with boy scouts of other nations.

j 369.2 B6663

Boy scout life; a series of photographs showing the life and training of the boy scouts. 1909. Brown.

Boy Scouts of America. 369.2 B66a

Official handbook for boys. 1914. Grosset.

The same. 1911. Doubleday.....369.2 B66

The same. 1914. Grosset.....j 369.2 B66a

The same. 1911. Doubleday.....j 369.2 B66

Boy Scouts of America—Allegheny county council. qr 369.2 B66

The boy scout; what he means to Allegheny county [prepared for the Allegheny county council by B. C. Moise. Pittsburgh].

- 369.2 B6662
- Boy scout's games, practices, etc.,** by a "B. P." scout; revised and published with the approval of, and under agreement with, the Boy scout (Baden-Powell's) headquarters. [1911.] Gale. (Boy scout's library.)
The same.....j 369.2 B6662
- 369.2 B666
- Boy scout's pocket book of general information,** by a "B. P." scout; revised and published with the approval of, and under agreement with, the Boy scout (Baden Powell's) headquarters. [1912.] Gale. (Boy scout's library.)
The same. [1911.].....j 369.2 B666
- Small book giving brief and definite directions for forming a patrol, preliminary training, tracking, woodcraft, work in the fields, signaling, etc.

Girls' scout organizations

- Camp Fire Girls.** 369.3 C15
 Book of the Camp Fire Girls. 1913.
 "Bibliography of references for elective honors," p.55-61.
The same. 1914. Doran.....j 369.3 C15
- Hoxie, W. J.** j 369.3 H86
 How girls can help their country; adapted from the handbook by Agnes Baden-Powell and Sir Robert Baden-Powell. 1913. Knickerbocker Press. (Handbook for girl scouts.)
 Directions for organizing and carrying on girl scout clubs. Includes chapters on camping, home life, hospital work and patriotism.

370 Education

Bibliography

- United States—Education bureau.** r 016.37 U25li
 Library circular [monthly], 1912. no.1-9. 1912.
 Each number consists of "Monthly record of current educational publications."
 No numbers published July-Sept.
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 Monthly record of current educational publications, 1912-date.
 1912-date.
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 This bibliography continues the "Bibliography of education" issued in the "Bulletin" of the Education bureau, 1907-11.
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 [Reference lists on educational topics; prepared in the Library division of the Bureau of education], April-June 1914, Jan.-June 1915.
 1914-15.

General works

Findlay, Joseph John.

370 F49s

The school; an introduction to the study of education. 1912. Holt.
(Home university library of modern knowledge.)

Contents: Origins.—The young of man.—The rise of educational institutions.—The function of the school.—Stages of growth (or development).—The organization of education.—Types of school, with some reference to universities.—The teacher.—The pursuits of school.—The corporate life of school.

"Bibliography," p.249-252.

General Education Board.

370 G29

General Education Board; an account of its activities, 1902-14. 1915.

The same.....r 370 G29

Contents: History of the General Education Board.—Resources and expenditures.—Farm demonstrations; boys and girls clubs.—Secondary education.—Colleges and universities.—Medical education.—Rural education.—Negro education.—APPENDICES: Charter of the General Education Board; Letters of gift and replies thereto, J. D. Rockefeller, A. T. Jeanes; Contracts between Washington University and Barnes Hospital; Contract between Yale University and New Haven Hospital.

General Education Board.

r 370 G29r

Report of the secretary, 1914/15.

A brief report of this board has been issued in the Annual report of the United States interior department, 1906-07 (r 353.3 U25), and since 1907 in the Report of the Education bureau (r 379.7 U25).

King, Irving.

370 K26e2

Education for social efficiency; a study in the social relations of education. 1915. Appleton.

The same. 1913.....370 K26e

Simple presentation, largely through the medium of illustration, of the prevailing social view of education, written not so much for the educational specialist as for busy teachers and parents. Its chapters cover such subjects as the adaptation of the country school to country needs, the coöperation of school and community, play as a factor in social efficiency, vocational guidance and the school as a social center.

King, Irving.

370 K26

Social aspects of education; a book of sources and original discussions. 1912. Macmillan.

The same.....r 370 K26

Annotated bibliographies at the end of each chapter.

"Designed as a teachers' source-book and aiming 'to secure to the student a broad and suggestive view of education in its more evident social relationships and more specifically with reference to its relations to social progress.' In part I, 'External social relations of education,' the rural situation, relations of home and school, the school as a social center, playgrounds, school gardens and industrial and vocational education have separate chapters. The second part deals with the internal relations of the school as a social group." *A. L. A. booklist*, 1912.

Nearing, Scott.

370 N18

The new education; a review of progressive educational movements of the day. 1915. Row.

Appeared in a condensed form in the "Ladies' home journal," v.30, March-June 1913.

Series of articles purporting to cover the most progressive work which is being done in the most progressive schools in the United States. The author has written so that the lay reader, grasping the significance of these educational successes, might see in them immediate possibilities for the schools in his locality.

Thorndike, Edward Lee.

370 T39

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- Bolton, Frederick Elmer.** 370.1 B61
Principles of education. 1910. Scribner.
"Work of extensive scope that makes accessible for beginners the latest results of the scientific study of education mainly from the biological-psychological point of view ... Valuable résumé of modern educational theory." *Elementary school teacher*, 1911.
- Comenius, Johannes Amos.** 370.1 C73a
Great didactic; tr. into English and ed. with biographical, historical and critical introductions by M. W. Keatinge. 2pts. in 2v. 1907-10. Black.
v.1. Introductions.
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- Dewey, John.** 370.1 D51d
Democracy and education; an introduction to the philosophy of education. 1916. Macmillan. (Text-book series in education.)
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Interest and effort in education. 1913. Houghton. (Riverside educational monographs.)
Contents: Unified versus divided activity.—Interest as direct and indirect.—Effort, thinking and motivation.—Types of educative interest.—The place of interest in the theory of education.
- Diggs, Mrs Annie Le Porte.** 370.1 D57
Bedrock; education and employment, the foundation of the Republic. 1912. Social Center Pub. Co.
An argument for establishing an employment bureau in connection with every educational institution in the United States.
- Ferrer Guardia, Francisco.** 370.1 F41
Origin and ideals of the Modern School; tr. by Joseph McCabe. 1913. Putnam.
Manuscript for this book was restored to Ferrer's trustees after he had been tried and executed as a revolutionist by the Spanish government. The school at Barcelona, which he founded to inculcate his ideas, social, moral and educational, was in existence from 1901 to 1906.
- Holmes, Edmond Gore Alexander.** 370.1 H735
What is and what might be; a study of education in general and elementary education in particular. 1912. Constable.
Remarkable monograph dealing with the lost energy in our mechanical system of elementary education.
- Jones, Wallace Franklin.** 370.1 J417
Principles of education applied to practice. 1911. Macmillan.
- Partridge, George Everett.** 370.1 P27
Genetic philosophy of education; an epitome of the published educational writings of G. Stanley Hall of Clark University, with an introductory note by President Hall. 1912. Sturgis.
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- Randels, George Basil.** r 370.1 R18
Doctrines of Herbart in the United States. [1909?]
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Thesis for Ph. D., University of Pennsylvania.
Study of the influence of Herbart's doctrines on American educational thought.

Spencer, Herbert. 370.1 S74er

Értelmi, erkölcsi és testi nevelés; angol eredetiből, a szerző engedélyével magyarra fordították Öreg János és Losonczy László. 1898.

Stoner, Mrs Winifred Sackville. 370.1 S88m

Manual of natural education. 1916. Bobbs.

Practical instructions to be used in connection with the author's previous book "Natural education."

Stoner, Mrs Winifred Sackville. 370.1 S88

Natural education. 1914. Bobbs. (Childhood and youth series.)

"Helpful literature," p.275-285.

Mrs Stoner describes the methods and devices used by her in the early training of her daughter, showing the natural means by which the child's mental development has been accomplished.

Swift, Edgar James. 370.1 S97

Learning and doing. 1914. Bobbs. (Childhood and youth series.)

"References for further reading," p.229-238.

"The writer is of the opinion that the principle of 'learning by doing' is applicable to all the studies of the school and that it should cease to be merely an attachment to school methods, to be used in certain subjects, such as manual training, and in a few others on 'laboratory days.' The instruction from teacher and books should accompany or follow the achievements of the pupils in the things they are trying to do." *Preface.*

Encyclopedias

qr 370.3 C97

Cyclopedia of education; ed. by Paul Monroe [and others]. v.3-5. 1912-13. Macmillan.

v.3. Gai-Lib.

v.4. Lib-Pol.

v.5. Pol-Zwi.

For v.1-2 see preceding catalogue, v.6.

Laurie, Arthur Pillans, ed. r 370.3 L37

Teacher's encyclopaedia of the theory, method, practice, history and development of education at home and abroad; written by many of the most eminent educational writers, thinkers, professors and teachers of the day. 7v. 1911-12. Caxton Pub. Co.

Bibliographies at the end of many articles.

Essays

Butler, Nicholas Murray. 370.4 B97a

Meaning of education; contributions to a philosophy of education. 1915. Scribner.

Contents: Introduction.—The meaning of education.—What knowledge is of most worth?—Is there a new education?—Five evidences of an education.—Training for vocation and for avocation.—Standards.—Waste in education.—The conduct of the kindergarten.—Religious instruction and its relation to education.—The scope and function of secondary education.—The secondary school programme.—The American college and the American university.—The place of Comenius in the history of education.—Status of education at the close of the 19th century.—Some fundamental principles of American education.—Education in the United States.—Discipline and the social aim of education.

Eliot, Charles William.

370.4 E47t

The tendency to the concrete and practical in modern education. 1913. Houghton. (Riverside educational monographs.)

Consists of two addresses: "The relation of education to national progress" and "Why oriental education has failed."

Advocates the newer and more practical education, which does not rely solely on formal book training, but includes the training of the senses and whatever may fit pupils for their various vocations. Attributes the unprogressiveness of oriental nations to the lack of this practical element in their educational methods and to their lack of acquaintance with the inductive philosophy.

Foerster, Norman, and others, comp.

370.4 F68

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v.1. The spirit of learning, by Woodrow Wilson.—Inaugural address, by Alexander Meiklejohn.—Knowledge viewed in relation to learning; Knowledge viewed in relation to professional skill, by J. H. Newman.—On science and art in relation to education, by T. H. Huxley.—The social value of the college-bred, by William James.—On the advisableness of improving natural knowledge; On the educational value of the natural history sciences, by T. H. Huxley.—A change of educational emphasis, by E. A. Birge.—An address to students, by John Tyndall.—Literature and science, by Matthew Arnold.—The study of art, by John Caird.—First principles, by G. E. Woodberry.—How to read, by Frederic Harrison.

v.2. What is a college for? by Woodrow Wilson.—On general and professional education, by John Caird.—Academic leadership, by P. E. More.—The American scholar, by R. W. Emerson.—The method of scientific discovery, by T. H. Huxley.—Darwinism as applied to man, by A. R. Wallace.—The religion of humanity, by A. J. Balfour.—The provinces of the several arts, by J. A. Symonds.—Literature, by J. H. Newman.—Books, by R. W. Emerson.—The working of the American democracy, by C. W. Eliot.—War, by R. W. Emerson.—The moral equivalent of war, by William James.

Henderson, Charles Hanford.

370.4 H44w

What is it to be educated? 1914. Houghton.

Contents: Foundations.—Religion.—Dogma.—Bread-and-butter.—Body.—The years of grace.—Spirit.—Bodily accomplishments.—Sharpening the tool.—The awkward age.—The life force.—The wanderjahr.—Afterwards.—Live your own life.—The question.

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370.4 L49

Lectures delivered in connection with the dedication of the Graduate college of Princeton University in October 1913. 1914. Princeton University Press. (Louis Clark Vanuxem foundation.)

Contents: Science and culture, by Émile Boutroux.—The vocation of philosophy at the present day, by Alois Riehl.—The present position of classical studies in England, by A. D. Godley.—The revival of science in the 17th century, by Arthur Shipley.

Munroe, James Phinney.

370.4 M96

New demands in education. 1912. Doubleday.

Contents: The grievance of the average boy against the average school.—The common school.—Education as prevention.—The demand for efficient administration.—The demand for a true profession of teaching.—The demand for vocational training.—The pressing need for industrial education.—The demands of business.—The need for real patriotism.—The demand for training citizens.—The demand for discipline.—The demand for a citizen's high school.—How the colleges ruin the high schools.—The donning of long trousers.—The mechanic arts.—The educational bearings of manual training.—The Russian system of manual training.—The demand for breadth.—What is demanded of the young engineer.—The genesis of these new demands.

"These twenty virile essays differ notably from many recent attacks on present-day education in containing constructive criticism. The school as the preparation for citizenship and work, not the training-ground for the college and university, is the main theme, and the advocate of industrial and vocational courses in the high school will find much excellent ammunition. The baleful effect of the colleges on the high schools has a vigorous discussion, and the adolescent boy receives very sympathetic consideration." *A. L. A. booklist*, 1912.

Owen, William Baxter.

370.4 O34

Humanities in the education of the future, and other addresses and papers. 1912. Sherman.

Other addresses and papers: The value of discipline in education.—Professional study in college.—The teaching of the classics: Are we sacrificing the humanistic to the linguistic?—High school training in its bearing upon civic integrity.—Efficiency the aim of education.—Simplified spelling.—W. C. Cattell.—F. A. March.—Professor March.—Indelicacy in literature.—Books to be read before graduation.—College fraternities.—Town and gown.—The easy chair.—Some freaks of college sentiment.—What the pews require of the pulpit.—Ezekiel's watchman.—How shall I give thee up, Ephraim?—The noise of them that sing.

Partly reprinted from various periodicals.

Smith, William Hawley.

370.4 S66al

All the children of all the people; a study of the attempt to educate everybody. 1912. Macmillan.

Mr Smith has achieved that rare thing, a book really alive, the fruit, not of reading or lessons learnt, but of direct observation and individual thought. He believes that the public schools of America fail in their acknowledged duty of teaching "all the children of all the people," that in many cases the children have been sacrificed to the school. His remedy consists in a changed educational spirit—an endeavor to develop the individuality of every child and so to broaden methods and curricula as to open to every child subjects that the laws of his nature permit him to assimilate. *Condensed from Athenæum, 1912.*

Periodicals

California University.

qr 370.5 C13

Publications; education. v.1; v.2, no.1; v.3, no.1-4; v.4; v.5, no.1-2. 1893-1914.

v.1, v.2, no.1, issued originally as "University of California studies."

r 370.5 E299

Educational review [monthly]; analytical index, v.1-50, 1891-June 1915. 2v.

For volumes of magazine see preceding catalogue, v.1.

Missouri University.

r 370.5 M74

Bulletin; education series. no.1-II. 1911-15.

qr 370.5 P39

Pennsylvania school journal [monthly], 1852-June 1899. v.1-47. 1852-99.

For v.48-date see preceding catalogue, v.6.

qr 370.5 S3724

School and society [weekly], Jan. 1915-date. v.1-date. 1915-date.

Edited by J. M. Cattell.

Societies. Associations

American Association for the Advancement of Education. r 370.6 A51

Proceedings of the session (3d), held at Pittsburgh, Pa., Aug. 9-12, 1853. 1854.

Conference for Education in the South.

r 370.6 C748

Proceedings of the conference (17th), 1914. [1914.]

National Education Association.

r 370.6 N15n

N. E. A. bulletin, April 1913-date. v.1-date. 1913-date.

v.4, no.2, wanting.

Issued irregularly.

- National Education Association.** r 370.6 N15y
 Yearbook and list of active members for 1912. 1912.
The same, 1913–date. 1913–date. (In N. E. A. bulletin, v.2–date.).....r 370.6 N15n
 From 1870 to June 30, 1906 the name of this association was the National Educational Association.
 For earlier volumes see preceding catalogue, v.4, 6.
- New York (state)—University.** r 370.6 N2612
 Proceedings of the convocation (44th–47th, 50th–date), 1906–09, 1914–date. 1907–date.
 Proceedings of convocation (48th–49th), 1910–13, not published.
 Proceedings of earlier conventions will be found in the Annual report of the University.
 Title varies.
- New York (state), Associated Academic Principals.** r 370.6 N261
 Proceedings of the annual meeting (23d–24th), 1907–08. 1908–09.
 Proceedings of earlier meetings will be found in the Annual report of New York (state) University, also in the Annual report of the High school department of the university.
- New York State Association of School Commissioners and Superintendents.** r 370.6 N2613
 Proceedings of the annual meeting (52d–54th), 1907–09. 1908–10.
- New York State Teachers' Association.** r 370.6 N26
 Proceedings of the annual meeting (62d–64th), 1907–09. 1908–10.
- Pennsylvania State Educational Association.** qr 370.6 P39
 Report of proceedings (63d meeting), with papers, also brief sketch of each meeting held since organization in 1852, with the constitution and by-laws of the State Educational Association, Harrisburg, Dec. 26–28, 1912. 1912.
 Reprint from "Pennsylvania school journal."
 Previous to 1900 the society was called The Pennsylvania State Teachers' Association.
 Proceedings and papers of the meetings are included in the "Pennsylvania school journal" (qr 370.5 P39).
- Philadelphia, Public Education Association.** r 370.6 P49a
 Annual report (30th), 1911/12. [1912.]
 Report for 1911/12 has title "A year of co-operative service for the schools."
- Phoebe Brashear Club of Pittsburgh.** r 370.6 P52
 Year book, 1914/15. [1914. Pittsburgh.]
 The club was formed in 1911 to cultivate and promote educational work in the community. Through its educational fund summer scholarships are awarded to Pittsburgh teachers.
- Society of College Teachers of Education.** r 370.6 S67
 Publications. no.1–11. 1906–15.
 no.1. The college course in the principles of education. (In qr 370.5 S3723 v.14.)
 no.2. The organization of the department of education in relation to the other departments in colleges and universities. (In qr 370.5 J466 v.19.)
 no.3. The history of education as a professional subject.
 no.4. Observation and practice teaching in college and university departments of education.
 no.5. The aims, scope and methods of a university course in public school administration.
 no.6. Research within the field of education; its organization and encouragement.

Society of College Teachers of Education—continued. r 370.6 S67

no.7. Graduate and undergraduate courses and degrees in education.—Normal schools and university departments of education.—The present status of education as a science.

no.8. Reports of investigations by members of the Society of College Teachers of Education.

no.9. List of approved colleges and universities in the North Central Association of Colleges and Secondary Schools for 1913.

no.10. Rating, placing and promotion of teachers.—Educational surveys.—List of educational investigations by members.

no.1 will be found in "School review," Feb. 1906, v.14, p.69-122 (qr 370.5 S3723 v.14).

no.2 will be found in "Journal of pedagogy," Dec. 1906-March 1907, v.19, p.81-176 (qr 370.5 J466 v.19).

no.6-11 are issued as School review monographs.

Training schools

Manny, Frank Addison.

370.7 M33

City training schools for teachers. 1915. (United States—Education bureau. Bulletin, 1914, no.47.)

"Bibliography," p.123-127.

The same. (In United States—Education bureau. Bulletin, 1914, no.47.).....r 370 U25 1914, no.47

History of education

370.9 A61

Current activities and influences in education in 1911-12; a report upon current educational activities throughout the world by J. P. Garber. 1912-13. Lippincott.

The same, 1912.....r 370.9 A61

Title of volume for 1911 reads "Current educational activities."

For volume for 1910 see preceding catalogue, v.6, under title "Annals of educational progress."

Dewey, John, & Dewey, Evelyn.

370.9 D51

Schools of to-morrow. 1915. Dutton.

The same.....r 370.9 D51

"A study of educational theories which have been considered soundest and best ever since Plato, illustrated by the practices found in some dozen schools in various parts of the United States. Shows how the best educational work may be done without great equipment oftentimes and in small schools as well as large. Readable, non-technical, a book which takes nothing for granted on the part of the reader but an interest in education and democracy." *A. L. A. booklist*, 1915.

Freeman, Kenneth John.

370.9 F91

Schools of Hellas; an essay on the practice and theory of ancient Greek education from 600 to 300 B. C.; ed. by M. J. Rendall. 1912. Macmillan.

"Select bibliography," p.19.

Written as a dissertation for a Trinity fellowship, the work was left unfinished by the author's death, in 1906.

"The best account of the Greek schools that has hitherto been issued in the English language...These vivid and interesting chapters enable the reader to get a firm grasp on the methods and aims of Hellenic education." *Saturday review*, 1907.

- Grasberger, Lorenz.** 370.9 G79
 Erziehung und unterricht im klassischen alterthum, mit besonderer rücksicht auf die bedürfnisse der gegenwart. 3v. 1864-81.
 v.1. Die leibliche erziehung bei den Griechen und Römern: Die knabenspiele; Die turnschule der knaben.
 v.2. Der musische unterricht; oder, Die elementarschule bei den Griechen und Römern.
 v.3. Die ephebenbildung; oder, Die musische und militärische ausbildung der griechischen und römischen jünglinge.
- Graves, Frank Pierrepont.** 370.9 G81
 History of education in modern times. 1913. Macmillan.
 "Supplementary reading" at the end of many of the chapters.
 "Well proportioned and well written...A distinct advance on the author's earlier volumes on the history of education." *Educational review*, 1914.
- Graves, Frank Pierrepont.** 370.9 G81s
 Student's history of education. 1915. Macmillan.
 "Supplementary reading" at the end of each chapter.
- Painter, Franklin Verzelius Newton.** 370.9 P16a
 History of education. 1915. (International education series.)
 "List of authorities," p.397-400.
 A graphic but brief account of educational movements and reformers from early times down to the present.
- Seeley, Levi.** 370.9 S45a
 History of education. 1914. Amer. Book Co.
 Bibliography, p.347-356.
 Intended for a short text-book in normal schools or in preparing for any teachers' examination. The special plan of the book includes a study of the history and environment, of the internal, social, political and religious conditions of the people as necessary to any proper conception of their education.

371 Teaching. Methods

- Brooks, Edward.** 371 B773
 Normal methods of teaching, containing a brief statement of the principles and methods of the science and art of teaching, for the use of normal classes and private students preparing themselves for teachers. 1889. Normal Pub. Co.
- Chancellor, William Estabrook.** 371 C360
 Our city schools; their direction and management. 1908. Heath.
 "Bibliography," p.334.
 "Seldom is the administration of public schools treated so philosophically and courageously as in [this book]...The author's point of departure is his belief that a correct *system* is absolutely essential to good schools; that those charged with the supervision of schools have too long contented themselves with seeking the best results possible under conditions far from perfect; and that they should have the courage to demand the best-known methods both of legislation and administration. Many ideas which he presents seem radical, and yet nearly all may be found exemplified in practice." *Nation*, 1908.
- Dutton, Samuel Train.** 371 D95
 School management; practical suggestions concerning the conduct and life of the school. 1911. Scribner.
 "Bibliography," p.276-278.
- Gregory, Benjamin Carlisle.** 371 G866
 Better schools; ed. by J. L. Hughes. 1914. Macmillan.

- Groszmann, Maximilian Paul Eugen.** 371 G94
 Career of the child. 1911. Badger.
 Careful analysis of the aims of education; of the physical, mental and moral stages of growth and the best conditions under which this growth can be promoted. The problem of coördination is an important factor in the treatment.
- Hyde, William De Witt.** 371 H99
 The teacher's philosophy in and out of school. 1910. Houghton.
 (Riverside educational monographs.)
 Brief monograph, the first part of which exhibits the five types of personal interest corresponding to the five stages of education from the kindergarten to the university; and the second part, the five types of personality to be harmoniously blended in the individual.
- Judd, Charles Hubbard.** 371 J49
 Psychology of high-school subjects. 1915. Ginn.
 "Less a formal treatise upon educational psychology than a critical summary and discussion from the point of view of the psychologist, of the views put forward by... persons interested in the teaching of special subjects... Comprehensive and informing discussion of the issues involved in high school pedagogy." *Nation*, 1915.
- McMurry, Charles Alexander.** 371 M21c
 Conflicting principles in teaching and how to adjust them. 1914.
 Houghton.
- McMurry, Charles Alexander.** 371 M21h
 Handbook of practice for teachers; practical directions for management and instruction. 1915. Macmillan.
- McMurry, Charles Alexander, & McMurry, F. M.** 371 M21a
 Method of the recitation. 1914. Macmillan.
- Milner, Florence.** 371 M71
 The teacher. 1912. Scott, Foresman. (The lake teachers' library.)
 Suggestive and practical advice to the teacher on school duties, large and small, and on the outside associations resulting from them.
- O'Shea, Michael Vincent.** 371 O29
 Everyday problems in teaching. 1912. Bobbs.
 "References for reading," app. p.1-26.
- Perry, Arthur Cecil.** 371 P440
 Outlines of school administration. 1913. Macmillan.
 "Bibliography," p.434-443.
 "Brief survey of a broad field, useful for the person who wishes to gain a general idea of the present status of education in this country and in Europe. Its value lies largely in its information on the foreign school systems as reviewed in the light of our own." *A. L. A. booklist*, 1913.
- Phelps, William Lyon.** 371 P49
 Teaching in school and college. 1912. Macmillan.
Contents: Introductory.—School-teaching and discipline.—Private school-teaching and scholarship.—Imagination in teaching.—The efficiency of college teaching.—Education and instruction.—English composition.—English pronunciation.—Teaching English literature.—The moral aspect of teaching.
 Chapters on the art of teaching, personal and human rather than pedagogical. Author is (1912) Lampson professor of English literature at Yale University.
- Seeley, Levi.** 371 S45
 New school management. 1903. Hinds.
 Considers character of the teacher, school discipline, good order, proper habits, correct morals, relation of the school to the community, as well as other matters connected with the internal affairs of the school, such as promotion, classification of the school, the daily program, school incentives, the conducting of the recitations, relation between principals and assistants, and school hygiene.

Strayer, George Drayton.

371 S91

Brief course in the teaching process. 1914. Macmillan. (Brief course series in education.)

Appendix: The teaching of English in elementary schools, by F. T. Baker.
"Collateral reading" at the end of each chapter.

Author is (1914) professor of educational administration in Teachers College, Columbia University. His book treats of the problems which the teacher faces daily in the class room. It does not discuss theories of education, but rather those processes through which fundamental principles are expressed in actual teaching.

"The strongest phase of Professor Strayer's book is to be found in the excellent questions, problems and exercises given at the end of each chapter." *Dial*, 1912.

Weimer, Hermann.

371 W45

The way to the heart of the pupil; authorized translation by J. R.

Bishop [and] Adolph Niederpruem. 1913. Macmillan.

Deals with the causes of friction between teacher and pupil, with special emphasis on the mistakes of the teacher. Author believes that pupils are won by love, confidence, patience and personal interest.

[**Witte, Karl Heinrich Gottfried.**]

371 W82

The education of Karl Witte; or, The training of the child; ed. with an introduction by H. A. Bruce; tr. from the German by Leo Wiener. 1914. Crowell.

"Translation... of a rather pleasing book, long forgotten, in which, in quaint and homely fashion, Pastor Dr. Witte tells how he educated his son Karl... on the theory that 'every ordinarily organized child may become a superior man if only he is properly educated'... Professor Wiener's translation is partly... in the interest of justifying the course pursued by himself and Dr. Boris Sidis... What [the book] mainly demonstrates is the immense importance of a genial and cultivated home and of sympathetic and interested parents in calling forth the powers of the child." *Nation*, 1914.

Yocum, Albert Duncan.

371 Y27

Culture, discipline and democracy. 1913. Sower.

"References," p.300-304.

Elaborate and somewhat involved discussion of the issue between the teaching of academic subjects and those that relate more closely to a practical preparation for life. Author inclines to those subjects which are directly useful and would eliminate foreign languages and mathematics from the curriculum in favor of literature, history, sociology, economics and natural sciences.

Montessori method

Culverwell, Edward Parnall.

371 C91

Montessori principles and practice; a book for parents and teachers.

1914. Bell.

"An analysis, an appreciation, and a criticism of Dr. Montessori's work. His central thesis is that, while the spirit of her undertaking is vital and permanent, the practical details... must always be liable to reconsideration and changes... Full of facts that provoke thought, and... well worth the study of any person concerned in the education of young children." *Athenaeum*, 1913.

Fisher, Mrs Dorothea Frances (Canfield).

371 F53m

The Montessori manual; in which Dr Montessori's teachings and educational occupations are arranged in practical exercises or lessons for the mother or the teacher. 1913. Richardson.

Contents: Something wrong with modern education.—Dr Montessori to the rescue, her great idea.—An Italian casa dei bambini.—Use of the apparatus in American homes and schools.—Nature study.—Montessori discipline and obedience.—Some questions that are answered for mothers and teachers.

Fisher, Mrs Dorothea Frances (Canfield).

371 F53

A Montessori mother. 1912. Holt.

"Interesting presentation of the Montessori system from the viewpoint of a keen, well-educated American mother who studied it in the Casa dei Bambini of the Franciscan Nunnery in Rome and returned to apply it as far as possible in her own home. She describes with some detail the teacher's attitude toward the children and the apparatus used." *A. L. A. booklist*, 1912.

Kilpatrick, William Heard.

371 K25

Montessori system examined. 1914. Houghton. (Riverside educational monographs.)

Author is (1914) assistant professor of education at Teachers College, Columbia University.

He is fully acquainted with the history of pedagogical development and thoroughly conversant with the psychological basis of educational theory. He has made a careful study of Dr Montessori's theory, and of her practice at first hand; and attempts to show wherein these differ from those of the kindergarten, as well as from the pedagogical principles upheld by Prof. John Dewey. He presents clearly and concisely the weaknesses and the strong points of both the new system and of the older system of Fröbel as it has been developed by his disciples. He gives Dr Montessori full credit for her scientific aims and for some of her practice, but he does not spare critical judgment when it appears warranted. *Condensed from Nation*, 1914.

Montessori, Maria.

371 M85d

Dr Montessori's own handbook. [1914.] Heinemann.

Gives a succinct idea of her method of education and furnishes a practical guide to the use of the necessary apparatus.

Montessori, Maria.

q 371 M85

Il metodo della pedagogia scientifica applicato all' educazione infantile nelle case dei bambini. 1909.

Montessori, Maria.

371 M85m

Montessori method; scientific pedagogy as applied to child education in "The children's houses," with additions and revisions by the author; tr. from the Italian by A. E. George, with an introduction by H. W. Holmes. 1912. Stokes.

Makes available in English this remarkable educational system which has been so successfully applied by Dr Montessori in Rome and is (1912) being used experimentally in some American schools. The method here set forth is intended for children from three to six years of age. Its most striking and significant aspects are that it adapts to the education of normal children methods and apparatus originally used for deficient; that it is based on a radical conception of liberty for the pupil; that it entails a thorough training of separate sensory, motor and mental capacities; and that it leads to rapid and easy mastery of the elements of reading, writing and arithmetic.

Smith, Anna Tolman.

371 S64

Montessori system of education; an examination of characteristic features set forth in *Il metodo della pedagogia scientifica*. 1912. (United States—Education bureau. Bulletin, 1912, no.17.)

"Bibliography," p.29-30.

The same.....j 371 S64

The same. (In United States—Education bureau. Bulletin, 1912, no.17.).....r 370 U25 1912 no.17

Smith, Theodate Louise.

371 S66

The Montessori system in theory and practice; an introduction to the pedagogic methods of Dr Maria Montessori, with some reports of American experience. 1912. Harper.

Stevens, Ellen Yale.

371 S84

Guide to the Montessori method. 1913. Stokes.

The author, who studied the Montessori method in Rome, explains and interprets its psychological basis.

Ward, Florence Elizabeth.

371 W21

The Montessori method and the American school. 1913. Macmillan.

"Bibliography," p.233-240.

Impressions received by the author at the Montessori school in Rome. Embodies also the results of her own experiments with children. Not a complete interpretation of the system but an application of its principles to American needs.

Teachers. Pensions

Jessup, Walter Albert.

371.1 J29

The teaching staff. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

National Education Association.

r 371.1 N15r

Report of the Committee on teachers' salaries and cost of living. 1913.

Ballou, Frank Washington.

371.14 B21

Appointment of teachers in cities; a descriptive, critical and constructive study. 1915. Harvard University Press. (Harvard studies in education.)

"Bibliography," p.191-194.

The present practice of the appointment of teachers in 72 cities is set forth in detail, and a "constructive plan" is presented.

Carnegie Foundation for the Advancement of Teaching. qr 371.17 C21b

Bulletin. no.7-9. 1914-16.

no.7-9. A study of education in Vermont.—The common law and the case method in American university law schools, by Josef Redlich.—A comprehensive plan of insurance and annuities for college teachers, by H. S. Pritchett.

For no.1-6 see preceding catalogue, v.6.

Carnegie Foundation for the Advancement of Teaching. qr 371.17 C21

Index of Annual report (1st-10th), 1906-15.

For volumes of report see preceding catalogue, v.6.

Prosser, Charles Allen, & Hamilton, W. I.

371.17 P96

The teacher and old age. 1913. Houghton. (Riverside educational monographs.)

Contents: Present extent of teachers' pensions and annuities.—Teachers' annuities as part of a program of social insurance.—The question of teachers' retirement allowances in the light of social insurance principles.—Characteristics of a model retirement law.—Getting legislation.—Appendices.

Bibliography, p.121-134.

School organization. Records

Connecticut—Education board.

r 371.2 C75

Questions used at state teachers' examinations, 1910 and 1911. 1912. (Connecticut school document, no.12, 1911.)

Hartwell, Shattuck Osgood.

371.2 H33

Overcrowded schools and the platoon plan. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

National Education Association—Department of superintendence. r 371.2 N15

Final report of the Committee on uniform records and reports to the National council at the St. Louis meeting, Feb. 1912. [1912. University of Chicago Press.]

The same. 1912. (In United States—Education bureau. Bulletin, 1912, no.3.).....r 370 U25 1912 no.3
Title reads "Report."

New York (state)—Education department. r 371.2 N26

Academic examination papers, 1908/09–1909/10. 1909–10.

Earlier papers will be found in the Annual report of the High school department of New York (state) University.

Grading

Cameron, Norman. r 371.25 C15

New method for determining rate of progress in a small school system. 1912.

Reprinted from the "Psychological clinic," v.5, no.8–9, Jan.–Feb. 1912.

"References," p.28.

Thesis for Ph. D., University of Pennsylvania.

Heilman, Jacob Daniel. r 371.25 H41

Clinical study of 1,000 retarded children in the public schools of Camden, New Jersey. 1910. Psychological Clinic Press. (Psychological monographs.)

Thesis for Ph. D., University of Pennsylvania.

Judd, Charles Hubbard. 371.25 J49

Measuring the work of the public schools. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Phillips, George Byron Armbruster. r 371.25 P51

Retardation in the elementary schools of Philadelphia. 1912.

Reprinted from the "Psychological clinic," v.6, no.3–4, May–June 1912.

Thesis for Ph. D., University of Pennsylvania.

Sies, Raymond William. r 371.25 S57

Scientific grading of college students; an address before the Conference of College Presidents of Pennsylvania, Feb. 29, 1912, held on the occasion of the celebration of the 125th anniversary of the University of Pittsburgh. [1912. Pittsburgh.]

Reprinted from "University of Pittsburgh bulletin," v.8, no.21.

Snyder, Aaron Moyer. r 371.25 S67

Extent and causes of retardation in the Reading, Pa. public schools in December 1910; a statistical study. 1911. Psychological Clinic Press. (Psychological monographs.)

Thesis for Ph. D., University of Pennsylvania.

Methods of instruction

Betts, George Herbert. 371.3 B46

The recitation. 1911. Houghton. (Riverside educational monographs.)

Considers the purposes and method of the recitation, the art of questioning, conditions necessary to a good recitation, and the assignment of the lesson.

Charters, Werrett Wallace.

371.3 C38

Methods of teaching; their basis and statement developed from a functional standpoint. 1912. Row.

"List of books for class reading," p.434-436.

"Observations and devices for teaching from the author's personal point of view rather than...a fundamental treatment of methods." *Educational review*, 1910.

Earhart, Lida Belle.

371.3 E17t

Types of teaching, with an introduction by Henry Suzzallo. 1915. Houghton.

"References" at the end of each chapter.

Intended to show teachers how to conduct recitations so that each will have a definite influence and develop a decided plan. There is the complete plan for those who are in training, or for the teacher who wishes to work out an entire unit of subject matter. There is also the condensed plan for those who must cover several lessons every day and who cannot amplify the plan of each recitation period.

Kendall, Calvin Noyes, & Mirick, G. A.

371.3 K17

How to teach the fundamental subjects. 1915. Houghton. (River-side textbooks in education.)

Contents: The point of view.—English.—Mathematics.—Geography, history, civics.—Hygiene.

"Bibliography," p.317-320.

Parker, Samuel Chester.

371.3 P24

Methods of teaching in high schools. 1915. Ginn.

"Supplementary reading," p.23; "Bibliographical notes" at the end of each chapter.

"Helpful manual for the classroom teacher, well arranged and full of illustrative material, based on the author's experience in teaching educational methods at the University of Chicago. Aims to bring about a better type of instruction 'by adapting all instruction to contemporary social needs, by basing methods of instruction on sound psychological principles which have been determined, as far as possible, experimentally, and by applying principles of scientific management to the conduct of all teaching.'" *A. L. A. booklist*, 1915.

Suhrie, Ambrose Leo.

371.3 S94

Inductive determination of educational method; or, The standardization and application of efficiency tests to any of the numerous factors of educational method which now dominate class-room teaching processes or which may be made to contribute to their greater efficiency, introduction by A. D. Yocum. 1915. Warwick.

"Bibliographical note," p.57.

Whitney, William T.

371.32 W65

The socialized recitation. 1915. Barnes.

A plan for reorganizing recitation methods whereby the teacher's work becomes the background rather than the working center of the class period and the emphasis is placed on the pupil's initiative, activity and responsibility.

Winch, William Henry.

371.3 W77

Inductive versus deductive methods of teaching; an experimental research. 1913. Warwick. (Educational psychology monographs.)

By a successful English educator and scholar. In order to compare the two methods he tested groups of children in the London elementary schools by using induction for one group and deduction for the other. The results here recorded indicate that good teaching depends on skilled teachers who employ both methods, and not on a slavish adherence to either. *Condensed from Educational review*, 1913.

Systems of education

Manual training

Goetze, Woldemar. 371.4 G55

Illustrated manual of hand and eye training on educational principles; a text-book for manual training in cardboard-work, carpentering, chip-carving, metal-work, modelling, etc. [1894.] Newmann.

qr 371.4 I24

Industrial-arts magazine; an educational monthly, 1914-date. v.1-date. 1914-date.

Lull, Herbert Galen.

qr 371.4 L97

Manual labor movement in the United States. 1914. (Washington (state) University. University studies, no.8.)

Reprint from "Manual training," June 1914.

Pabst, Alwin.

371.4 P11

Handwork instruction for boys; tr. from the German by B. R. Coffman. 1910. Manual Arts Press.

Six chapters discussing the bases of handwork, the place of handwork in the history of pedagogy, handwork in the school and in various institutions, and systems of handwork in different countries.

qr 371.4 P49

Philippine craftsman; a magazine published by the Bureau of education, devoted to the advancement of industrial instruction in the public schools of the Philippines [monthly], July 1912-March 1917. v.1-5. 1912-17.

No more published.

Row, Robert Keable.

371.4 R78

Educational meaning of manual arts and industries. 1909. Row.

Aims "to show first, the various educational values of training in certain forms of manual arts and industries, including manual training, cooking, sewing, mending, house furnishing and decoration, school gardening and agriculture; second, in what part of the school course and to which classes of children this sort of training is relatively most important; third, what general methods of training in these lines most fully realize their educational values." *Chapter 1.*

Smith, Hamilton Ross.

r 371.4 S64

Development of manual training in the United States. 1914. Intelligencer Print.

"Bibliography," p.88-90.

Thesis for Ph. D., University of Pennsylvania.

Vocational education

See also Vocational guidance, 174

See also Technical education, 607

Bawden, William Thomas.

371.42 B32

Progress in vocational education. 1915. U. S. Government.

Reprint from the Report of the United States commissioner of education, 1913/14, v.1.

The same. (In United States—Education bureau. Report, 1913/14, v.1, p.239-289.).....r 379.7 U25 1913/14, v.1

Chicago, City Club.

371.42 C43

Report on vocational training in Chicago and in other cities; an analysis of the need for industrial and commercial training in Chicago and a study of present provisions therefor in comparison with such provisions in 29 other cities, together with recommendations as to the best form in which such training may be given in the public school system of Chicago. 1912.

The same.....r 371.42 C43

Davenport, Eugene.

r 371.42 D29

What is involved in vocational education; an address. 1915. University of Illinois.

By the dean of the College of agriculture of the University of Illinois who is an intense believer in vocational education.

Dooley, William Henry.

371.42 D73

Education of the ne'er-do-well. 1916. Houghton. (Riverside educational monographs.)

Concerned with the needs of the child who has no aptitude for literary studies. The author, principal of a technical high school in Fall River, Mass., makes an earnest plea for pre-vocational courses in the grammar school and for continuation schools which shall show a way out for boys and girls who find themselves in "blind-alley" jobs. Programs suggested are concrete and definite to a very high degree. *Condensed from Nation, 1916.*

Iowa State Teachers' Association.

r 371.42 I25

Vocational education and vocational guidance; a survey and preliminary report by a committee appointed by the Iowa State Teachers' Association. 1914. (Iowa—Public instruction department. Bulletin no.13.)

Kerschensteiner, Georg.

r 371.42 K21

Control of vocational schools in Germany; facsimile of letter, with translation approved by H. E. Gronow. [1914. Chicago, Commercial Club.]

Letter to the Chicago Commercial Club giving the author's opinion on the vocational education bill presented to the Illinois legislature in 1913.

Kerschensteiner, Georg.

371.42 K21i

The idea of the industrial school; tr. from the German by Rudolf Pintner. 1913. Macmillan.

"[Author] makes vocational education the first duty of the schools and then proceeds to show what the general nature of elementary industrial education should be...He believes that public education should be radically changed in order to meet the highest demands of citizenship and in order to secure the highest development of character." *Educational review, 1913.*

Kerschensteiner, Georg.

371.42 K21

The schools and the nation; authorised translation by C. K. Ogden, with an introduction by Viscount Haldane. 1914. Macmillan.

Contents: The problem of national education.—Vocational or "general" education? —Productive labour and its educational value.—The extension of the elementary school. —The school of the future a school of manual work.—The reconstitution of the trade schools in Munich.—The three essentials for the organisation of a continuation school system.—Agriculture and education in citizenship.—The modernisation of continuation schools for girls.—A duty of the municipalities.—The five essentials in the organisation of higher schools.—The training of teachers.—Appendixes: The school system of Munich; Outline of a rural continuation school.

"Dr. Kerschensteiner, who more than any other is responsible for the present vocational movement, is everywhere interesting because all that he has to say rests upon a

Kerschensteiner, Georg—*continued*.

371.42 K21

background of experience and reflection; and the present volume, though a collection of scattered lectures, gives a clear account of the history of the Munich continuation schools and of the ideals underlying them, while the appendices supply the details. One idea underlies all, namely, that...the education of the masses is to be guided wholly by the place of the individual in the economy of the nation." *Nation*, 1914.

Lapp, John Augustus, & Mote, C. H.

371.42 L31

Learning to earn; a plea and a plan for vocational education, with introduction by W. C. Redfield. 1915. Bobbs.

"Bibliography," p.381-389.

"Organizations interested in vocational training," p.393-394.

Vigorous and sound statement of the needs for reorganizing the traditional public-school education of the country. The need is set forth from the standpoint of the social welfare of the people. The subtitle is to be understood as a plea and a plan for an educational system by which all education shall be relevant to a life remunerative in happiness and in intellectual progress, as well as in material rewards. This broad vision protects the authors from viewing industrial education as simply a device for giving employers more skilled workers. *Condensed from New republic*, 1916.

Leavitt, Frank Mitchell, & Brown, Edith.

371.42 L46

Prevocational education in the public schools. 1915. Houghton.

Devoted to the methods of motivating the work of the sixth, seventh and eighth grades for those pupils who are hopelessly behind grade and need the stimulation which comes from concrete doing. Aims to correlate the book work with some constructive work which the children genuinely enjoy and at which they will work vigorously. The training given is preparatory for vocational education rather than for a vocation itself.

National Conference on Vocational Guidance (2d),

r 371.42 N15

New York, 1912.

Proceedings of the second National Conference on Vocational Guidance, New York, 1912; under the auspices of the Central committee on vocational guidance. 1913.

New York (city)—Education board.

r 371.42 N26

Report on vocational guidance made to the board by the committee on high schools and training schools. 1914.

Pennsylvania—Vocational division.

r 371.42 P39

Bulletin. no.1-6. 1913-16.

no.1. Vocational education in Pennsylvania.

no.2. Agricultural schools and departments.

no.3. Evening classes in industrial education.

no.4. Household arts schools, departments and evening classes.

no.5. The Pennsylvania child labor act and continuation schools.

no.6. A digest of the decisions of the Attorney general interpreting the child labor act of 1915, and directions for the issuance of employment certificates.

Philadelphia, Public Education Association.

r 371.42 P49

Survey of opportunities for vocational education in and near Philadelphia; comp. by J. R. Harper. 1915. (Study no.43.)

Taylor, Joseph Schimmel.

371.42 T25

Handbook of vocational education. 1914. Macmillan.

"Bibliography," p.180-182.

The same.....r 371.42 T25

"Goes over the ground thoroly and well. [The author] knows the literature of the subject and has had practical experience in observing and administering vocational schools." *Educational review*, 1914.

Discipline. Attendance

Bagley, William Chandler. 371.5 B15

School discipline. 1915. Macmillan.

"Written with the needs... of the young teacher primarily in view. An effort has been made to present in a concrete way the various steps that may be taken to establish a wholesome school 'spirit' that will reduce disciplinary difficulties to a minimum. To this end, most of the chapters deal rather with positive and non-coercive than with restrictive and repressive methods of treatment." *Preface.*

Kuehner, Quincy Adams. 371.5 K43

Evolution of the modern concept of school discipline. 1913.

"Bibliography," p.62-66.

Thesis for Ph. D., University of Pennsylvania.

Morehouse, Frances Milton. 371.5 M88

Discipline of the school, with introduction by L. D. Coffman. 1914.

Heath.

"Classified bibliography," p.305-311.

"The first chapters... deal with the general aspects of the situation, and with the theory of discipline... The latter chapters take up the concrete problems of school life and offer suggestions for their solution." *Preface.*

"Her philosophy is sane and sound, and founded upon a natural and... scientific, rather than a sentimental view of child nature." *School review*, 1915.

Ayres, Leonard Porter. 371.52 A98

Child accounting in the public schools. 1915. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Recommends a more accurate tabulation of the school census as a basis for increasing the income from state aid, and for enforcing the compulsory attendance law. Discusses the ages and grades at which pupils leave school, the number who are misfits through over-age or slow progress, the size of classes, and the work of the truancy division.

School buildings. Equipment

Ayres, Leonard Porter, & Ayres, May. 371.6 A98

School buildings and equipment. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

qr 371.6 B47

Bibliotheca paedagogica; verzeichnis der bewährtesten und neuesten lehrmittel, für höhere, mittlere und elementarschulen, sowie von werken der erziehungs- und unterrichts-wissenschaft. 1911.

Illustrated catalogue of school equipment and appliances of all kinds, books, furniture, scientific apparatus and a wide variety of illustrative material.

School hygiene. Medical inspection

American Academy of Medicine. 371.7 A51

Conservation of school children; being the papers and discussions of a conference at Lehigh University, April 3 and 4, 1912, together with several papers (not presented to the conference) prepared for this volume. 1912.

Reprinted from the "Bulletin of the American Academy of Medicine."

The papers deal chiefly with school hygiene and the training of the feeble-minded.

r 371.7 A51

American physical education review; published by the American Association for the Advancement of Physical Education; quarterly and monthly, Sept. 1896-Dec. 1901. v.1-6. 1896-1901.

v.2, 1897, wanting.

For v.7-date see preceding catalogue, v.4.

American School Hygiene Association.

r 371.7 A512

Proceedings of the congress (1st-8th), 1907-15. 1910-16.

Proceedings of the 7th congress, 1913, will be found in the Transactions of the International Congress on School Hygiene (r 371.7 I248).

Ayres, Leonard Porter, & Ayres, May.

371.7 A98

Health work in the public schools. 1915. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Bancroft, Jessie Hubbell.

371.7 B22

The posture of school children, with its home hygiene and new efficiency methods for school training. 1913. Macmillan.

"Bibliography," p.311-322.

The anatomy of the body is dealt with fully and corrective exercises are suggested, as well as means of stimulating self-pride in the pupil.

Chicago—Civil service commission.

qr 371.7 C43

Report on the investigation of engineer and janitor service, Board of education, city of Chicago; inquiry conducted at the request of the Board of education, May 1-Sept. 5, 1913. [1913.]

Cornell, Walter Stewart.

371.7 C82

Health and medical inspection of school children. 1912. Davis.

Practical exposition of the work. Author is (1912) director of medical inspection in the Philadelphia public schools, and his book is the result of the examination of some 35,000 children. Well illustrated.

Dresslar, Fletcher Bascom.

371.7 D81

School hygiene. 1916. Macmillan. (Brief course series in education.)

"Selected references" at the end of each chapter.

Simple, untechnical discussion of almost every topic bearing on the health of school children—the care of the vision, hearing, and teeth, the treatment of stuttering, open-air schools, the significance of fatigue, and the care of backward children. Contains chapters on the lighting, ventilation and equipment of school buildings, and the duties of janitors.

Hoag, Ernest Bryant, & Terman, L. M.

371.7 H64h

Health work in the schools. 1914. Houghton. (Riverside textbooks in education.)

"References" at the end of many of the chapters; "Suggestions for a teacher's private library in school hygiene," p.315-316.

International Congress on School Hygiene (3d),

qr 371.7 I24

Paris, 1910.

Troisième Congrès International d'Hygiène Scolaire, Paris, 2-7 août 1910. 3v. 1910-11.

v.1. Rapports.

v.2. Résumés de rapports et de communications.

v.3. Compte rendu.—Communications.

Most of the lectures are here printed in French, German and English.

- Otto, Eduard Karl Heinrich.** 371.7 O31
 Über den anteil der hygiene an der entwicklung des deutschen schul-
 hauses. 1911.
 Von der Kgl. Technischen Hochschule zu Hannover als doktor-dissertation ge-
 nehmigt.
 "Literaturverzeichnis," p.73-74.
- Putnam, Helen Cordelia.** 371.7 P99
 School janitors, mothers, and health. 1913. Amer. Academy of Medi-
 cine Press.
 "References," p.187.
 Urges an organized effort among mothers to secure clean school-houses, and healthy
 surroundings for their children both at home and at school.
- Rapeer, Louis Win, ed.** 371.7 R19
 Educational hygiene from the pre-school period to the university.
 1915. Scribner.
 "Bibliography," p.629-633.
 Comprehensive survey, covering medical supervision, physical education, school sani-
 tation, the teaching of hygiene and the hygiene of instruction.
- Terman, Lewis Madison.** 371.7 T31
 Hygiene of the child. 1914. Houghton. (Riverside textbooks in
 education.)
 "References" at the end of most of the chapters.
 Also published under the title "Hygiene of the school child."
 Treats of the fundamental facts in the physical development of the child and in-
 dicates means of remedying unfavorable conditions, defects, and diseases prevalent
 among school children.

School meals

- Bryant, Louise Stevens.** 371.716 B84
 School feeding; its history and practice at home and abroad, with
 an introduction by P. P. Claxton. 1913. Lippincott.
 "Annotated bibliography on school feeding, arranged according to topics," p.261-297.
 "Methods of feeding school children employed in European countries and those in
 use in this country are fully described, the problems of malnutrition and school menus
 discussed...and appendixes containing practical data added. Frequent comparisons and
 a discussion of the one- and three-cent lunches give added value to a useful book."
A. L. A. booklist, 1913.
- Philadelphia, Home and School League.** r 371.716 P49
 Annual report of the School lunch committee (1st-4th), 1910/11-
 1913/14.

Recreations

- Curtis, Henry S.** 371.74 C93
 Education through play. 1915. Macmillan.
 "Bibliography" at the end of many of the chapters.
 His thesis is that play is essentially an educational problem and that playgrounds
 should be under the control of the educational authorities. Considers play in various
 relations and shows its efficacy as a preventive of crime and disease. Compares the play
 systems of German, English and American schools. Describes in detail playground de-
 sign and apparatus.
- Johnson, George Ellsworth.** 371.74 J36e
 Education through recreation. 1916. Survey committee of the
 Cleveland foundation. (Cleveland Education Survey.)

National Collegiate Athletic Association. r 371.74 N15

Replies to a questionnaire on college athletic administration, comprising eligibility, training, physical condition and finances; comp. by F. W. Nicolson for the 7th annual convention, Dec. 27, 1912. [1912.]

Student societies**Corda Fratres.** r 371.8 C81

Storia della Corda Fratres, federazione internazionale degli studenti, 1898-1911.

Baird, William Raimond. r 371.85 B16a3

Manual of American college fraternities; a descriptive analysis of the fraternity system in the colleges of the United States, with a detailed account of each fraternity. 1915. College Fraternity Pub. Co.

"Bibliography," p.765-779.

The same. 1912. r 371.85 B16a2

"Bibliography," p.699-713.

Phi Kappa Sigma Fraternity. qr 371.85 P492a

General register of the members, 1850-1910. 1910.

"Bibliography," p.15-17.

r 371.85 S67s

Sigma Xi quarterly, March 1913-Dec. 1914. v.1-2, in 1. 1914.

Society of the Sigma Xi. r 371.85 S67

Sigma Xi quarter century record and history, 1886-1911; comp. by H. B. Ward with the assistance of the chapter secretaries. [1913.] University of Illinois.

r 371.85 W66

Who's who in S. A. E. [Sigma Alpha Epsilon]; a biographical dictionary of notable living members of the fraternity; ed. by W. C. Levere. 1912. Privately printed.

Education of special classes**Civic Club of Allegheny County—Open-air school** r 371.9 C49
committee.

Report (1st), 1911/12. 1912. Pittsburgh.

In April 1912 the Open-air school was annexed by the Pittsburgh public education board as one of its special schools. Report of work to that date will be found in Annual report, 1911/12, of the Civic Club of Allegheny County (r 361 C49a).

Flickinger, Robert Elliott. r 371.9 F64

The Choctaw Freedmen and the story of Oak Hill Industrial Academy, Valliant, McCurtain county, Oklahoma, now called the Alice Lee Elliott memorial, including the early history of the five civilized tribes of Indian Territory, the presbytery of Kiamichi, synod of Canadian, and the Bible in the free schools of the American colonies, but suppressed in France, previous to the American and French revolutions. 1914. Presbyterian Board of Missions for Freedmen. Pittsburgh.

The Oak Hill Industrial Academy, for the training of colored pupils of the vicinity, was established in 1886.

Groszmann, Maximilian Paul Eugen. 371.9 G94

Study of individual children; a system of records, including complete child history, medical examinations, physio-psychological and mental tests, daily regimen and disease record, also case diagnosis, classification, etc. 1912. National Assoc. for the Study and Education of Exceptional Children.

The same r 371.9 G94

Holmes, William Henry, b. 1874. 371.9 H73

School organization and the individual child; a book for school executives and teachers, being an exposition of plans that have been evolved to adapt school organization to the needs of individual children, normal, supernormal and subnormal. 1912. Davis Press.

"Bibliography," p.181-195.

Mitchell, David. 371.9 M74

Schools and classes for exceptional children. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

United States—Indian bureau. r 371.9 U25

Tentative course of study for United States Indian schools; prepared under the direction of commissioner of Indian affairs. 1915.

Wallin, John Edward Wallace. 371.9 W18

The mental health of the school child; the psycho-educational clinic in relation to child welfare; contributions to a new science of orthophrenics and orthosomatics. 1914. Yale University Press.

Contains bibliographies.

Blind

American Association of Instructors of the Blind. r 371.9 A512

Proceedings of the convention (20th-22d), 1910-15. 1910-15.

v.20-21 title reads "Biennial convention."

Cincinnati Library Society for the Blind. r 371.9 C48

Report, 1906-15.

Report for 1908 wanting.

National Institute for the Blind, London. 371.9 N15

Revised Braille for reading and writing. v.1-3. 1914.

v.1. Grade 1.

v.2. Grade 2 (including grade 1).

v.3. Grade 3.

Perkins Institution and Massachusetts School for the Blind. r 016.3719 P43

Special reference library of books relating to the blind. v.1, pt.2. 1916.

v.1, pt.2. First supplement [1907-15]; comp. under the direction of E. E. Allen.

For v.1, pt.1, see preceding catalogue, v.6.

Xavier Braille Publication Society for the Blind. qr 371.9 X13

Annual report (1st-date) for the year ending Dec. 31, 1911-date. [1912-date.]

Deaf and dumb

Best, Harry.

371.9 B46

The deaf; their position in society and the provision for their education in the United States. 1914. Crowell. (Library of economics and politics.)

"The fullest compendium of information about deaf mutes yet published. The material has been gathered from United States and state documents, reports of schools for the deaf, and other authoritative sources. Takes the sociological viewpoint. Most space given to education." *A. L. A. booklist*, 1914.

Bruhn, Martha Emma.

371.9 B83

The Müller-Walle method of lip-reading for the deaf (Bruhn lip-reading system). 1915. Nichols.

Convention of American Instructors of the Deaf.

r 371.9 C76

Proceedings of the meeting (15th-20th), 1898-1914. 1899-1915.

Proceedings for the meeting (15th-19th), 1898-1911, will be found in the congressional series of United States documents, no. 3728, 4230, 4911, 5407, 6174.

Wright, John Dutton.

371.9 W93

What the mother of a deaf child ought to know. 1915. Stokes.

"Definite ways in which the mother can utilize the heretofore wasted years before school age, beginning with the child of two, how she can test the child's hearing, get in touch with him, and start him on the road toward his formal education and normal living." *A. L. A. booklist*, 1915.

Backward children

Goddard, Henry Herbert.

371.9 G54

School training of defective children. 1914. World Book Co. (School efficiency series.)

Report on the condition of classes for defective children in the New York city schools, with suggestions for improvement. Author is (1914) director of the Department of research in the Training School for Feeble-minded Children, Vineland, N. J. He was asked to make this investigation during the inquiry into the educational system of the city in 1911-13. The original report, of which this book is an enlargement, is found in that of the School inquiry committee, under the title "Ungraded classes" (qr 379.747 N2617 v.1).

Holmes, Arthur, b. 1872.

371.9 H734

Backward children. 1915. Bobbs. (Childhood and youth series.)

"Presents in a series of concrete illustrations studies of cases to exemplify the principles and methods underlying the diagnosis, treatment and training of backward children. It aims to describe the cases as simply, non-technically and humanly as the subject-matter will permit, in order to be of service to the care-taker of children who does not have a technical education in abnormal psychology." *Preface*.

Huey, Edmund Burke.

371.9 H89

Backward and feeble-minded children; clinical studies in the psychology of defectives, with a syllabus for the clinical examination and testing of children. 1912. Warwick. (Educational psychology monographs.)

"Bibliography," p. 209-213.

Dr Huey is (1912) lecturer in Johns Hopkins University and assistant in psychiatry in Phipps clinic of Johns Hopkins hospital. Book consists of case studies of 35 selected and grouped children.

Lapage, Charles Paget. 371.9 L29

Feeble-mindedness in children of school-age. 1911. Manchester University Press. (Manchester University. Medical series.)

Appendix contains an article entitled "On the training and treatment of feeble-minded children," by Mary Dendy.

"Bibliography," p.335-343.

"Designed as a handbook for teachers and others of the laity who have to do with backward and defective children. It is written in a plain and simple style and is full of common-sense, practical method, as well as a pretty complete explanation of causation and treatment...The general management of institutions occupies a large part of the book." *Survey*, 1911.

McCreedy, Edwin Bosworth. 371.9 M14

Retarded mental development in children. 1913. Lippincott.

Reprinted from "International clinics," v.1, 23d series.

The same.....r 371.9 M14

Morgan, Mrs Barbara Spofford. 371.9 M89

The backward child; a study of the psychology and treatment of backwardness; a practical manual for teachers and students, with an introduction by E. E. Farrell. 1914. Putnam.

"Full of practical methods of testing and of training...such as the author has used in an experimental clinic in New York city." *Survey*, 1914.

r 371.9 N155

National Conference on the Education of Backward, Truant, Delinquent and Dependent Children (10th), Buffalo, 1913.

Proceedings of the conference, Aug. 26-28, 1913. [1913.]

Pennsylvania University—Psychological laboratory and clinic. 371.9 P39

The special class for backward children; an educational experiment conducted for the instruction of teachers and other students of child welfare, reported by Lightner Witmer. 1911.

Pittsburgh, Hospital-school for Backward Children. r 371.9 P67

Hospital-school for Backward Children, incorporated Jan. 25, 1911. [1911.]

Wallin, John Edward Wallace. 371.9 W18e

Experimental studies of mental defectives; a critique of the Binet-Simon tests and a contribution to the psychology of epilepsy. 1912. Warwick. (Educational psychology monographs, no.7.)

Occupations for invalids

Hall, Herbert James, & Buck, M. M. 371.91 H17

The work of our hands; a study of occupations for invalids. 1915. Moffat.

The authors "have given special attention to the development of modified work as a remedy for those who are broken down nervously, and as a source of livelihood for the blind, crippled and infirm...They review the work that is now being carried on in the large state institutions, especially in Massachusetts and New York state, and discuss the possibilities of its further development." *Springfield Republican*, 1915.

Discusses methods of teaching these occupations.

Education for foreigners

Miller, Herbert Adolphus. 371.98 M69

The school and the immigrant. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

North American Civic League for Immigrants. 371.98 N45

Education of the immigrant; abstracts of papers read at a public conference under the auspices of the New York-New Jersey committee, held at New York city, May 16-17, 1913. 1913. (United States—Education bureau. Bulletin, 1913, no.51.)

The same. (In United States—Education bureau. Bulletin, 1913, no.51.).....r 370 U25 1913 no.51

United States—Naturalization bureau. r 371.98 U25

Outline course in citizenship; to be used in the public schools for the instruction of the foreign and native born candidate for adult-citizenship responsibilities, prepared by R. F. Crist. 1916.

372 Elementary education

Berle, Adolph Augustus. 372 B45

Teaching in the home; a handbook for intensive fertilization of the child mind, for instructors of young children. 1915. Moffat.

Designed for the parent who wishes to supplement or to direct his child's education. Dr Berle takes up the ideal curriculum, subject by subject, and seeks to solve the all important question of how to do the teaching.

George, Marian Minnie. j 372 G31a2

Primary plan book. 3v. 1912. Flanagan.

v.1. Autumn; September, October, November.

v.2. Winter; December, January, February.

v.3. Spring; March, April, May, June.

Suggestions to primary school teachers for a year's work, including nature and science study, literature, etc. Contains numerous stories, poems and songs.

Revised edition of her "Plan book."

Gesell, Arnold Lucius, & Gesell, Mrs Beatrice (Chandler). 372 G33

The normal child and primary education. 1912. Ginn.

"Bibliography," p.315-321.

Contains also a chapter entitled "The Montessori kindergarten."

"Practical and suggestive discussion of primary school pedagogy, based on a biological and psychological study of the normal child. The educational value of sense perception and motor expression, as taught by Pestalozzi, is emphasized and an attempt made to show that the 'normal child' is capable of much greater development than the average child of today." *A. L. A. booklist, 1913.*

Hillyer, Virgil Mores. 372 H56

Child training; a system of education for the child under school age. 1915. Century.

"For parents who wish to give their children under school age the advantages of systematic educational training at home. The course outlined includes habit drills, manual work, physical training, teaching common courtesies and everyday facts, and first lessons in reading [and writing]. Contains...a large amount of concrete material, such as familiar games and rhymes." *A. L. A. booklist, 1915.*

- Lynch, Ella Frances.** 372 L99
 Educating the child at home; personal training and the work habit.
 1914. Harper.
 For mothers who wish to teach English, spelling, arithmetic and other elementary subjects at home. Based upon actual practical experience and study.
- New York (state)—Education department.** r 379.747 N2612 v.6, pt.2
 Course of study and syllabus for elementary schools, 1910. 1910.
 (In its Annual report, v.6, pt.2.)
 Contains many bibliographies.
- Rombauer, Robert Julius.** qr 372 R66
 A study on primary education. 1913.

Kindergarten

- Bailey, Carolyn Sherwin, & Lewis, C. M. comp.** 372.2 B15
 For the children's hour. 1911. Milton Bradley Co.
Contents: Stories of the home relationship.—The home.—Nature stories.—Holiday stories.—Fairy tales and fables.
- International Kindergarten Union.** r 372.2 I24
 Proceedings of the annual meeting (19th–20th, 22d–23d), 1912–13, 1915–16.
 For volumes for 1906–11 see preceding catalogue, v.6.
- International Kindergarten Union—Committee of nineteen.** 372.2 I24
 The kindergarten; reports of the Committee of nineteen on the theory and practice of the kindergarten. 1913. Houghton.
 The Committee of nineteen was appointed for the purpose of more clearly defining kindergarten thought. Since it was found impossible to harmonize at once the views of all the members and issue a unified report, three reports are presented, by Susan E. Blow, Patty Smith Hill and Elizabeth Harrison respectively. These reports present from three points of view the underlying theories which control kindergarten practice to-day.
- Smith, Nora Archibald.** 372.2 S65h
 The home-made kindergarten. 1912. Houghton.
Contents: Introduction.—Outdoor work and play.—Indoor work and play.—Stories, games and songs.
 Instructions to mothers for directing the work and play of their children according to practical kindergarten methods which the author has evolved during a long period of experience in training children.
- Wiltse, Sara Eliza.** 372.2 W77
 Kindergarten stories and morning talks. 1898. Ginn.
The same. 1890.....j 372.2 W77
 The thought of these stories follows the seasons of the school year from September to June. Suggestions are given to the teacher for developing and illustrating them.

Science

- Mayman, Jacob Edward.** r 372.3 M53
 Experimental investigation of the book method, lecture method and experiment method of teaching elementary science in elementary schools. [1915.] (New York (city)—Education department—Division of reference and research. Publication no.13.)
 Cover title reads "Teaching elementary science in elementary schools."

Reading

- Briggs, Thomas Henry, & Coffman, L. D.** 372.4 B74
 Reading in public schools. 1911. Row.
 Contains bibliographies.
- Klapper, Paul.** 372.4 K31
 Teaching children to read. 1914. Appleton.
 "Suggested reading" at end of each chapter.
 Does not advance any new theories but deals in a definite and practical way with methods now in use and results to be striven for. A good working manual for the teacher.
- Sawyer, Nettie Alice.** 372.4 S27
 Five messages to teachers of primary reading. 1913. Rand.
 "Reference books," p.212-214.
 Author lays particular emphasis upon training the child's thought and appreciation in connection with his study of reading. She divides the discussion of her method into five sections: blackboard work, teaching the primer, word study, seat work and supplementary outlines.
- Spaulding, Frank Ellsworth, & Bryce, C. T.** 372.4 S73
 Learning to read; a manual for teachers. 1911. Newson. (Aldine readers.)
- Turner, Nellie Elfa.** 372.4 T86
 Teaching to read. 1915. Amer. Book Co.
 "Does not concern itself directly with the work of the primary grades. It offers a methodology for teachers, and by means of question and answer dissects a great many very ingeniously selected passages, with a view to making clear such elocutionary matters as grouping, contrast, parenthesis, repetition." *Nation*, 1915.

Primers. Readers

- Bryce, Catherine Turner.** j 372.4 B84c
 Child-lore dramatic reader, introduction by F. E. Spaulding. 1913. Scribner.
 Fairy tales, fables and rhymes in dialogue form. Brief suggestions for acting.
- Bryce, Catherine Turner.** j 372.4 B84f
 Fables from afar. 1910. Newson. (Aldine supplementary readers.)
 Fables and animal stories for little children.
- Bryce, Catherine Turner.** j 372.4 B84s
 Short stories for little folks. 1910. Newson. (Aldine supplementary readers.)
- Bryce, Catherine Turner.** j 372.4 B84t
 That's why stories. 1910. Newson. (Aldine supplementary readers.)
 Little stories for little children under the headings, The book of beginnings.—Elf and flower folk.—Rewards and judgments.—Lucky escapes.—Some wishes.
- Coe, Ida, & Christie, A. J.** j 372.4 C65s
 Story hour readers. 3v. 1913-14. Amer. Book Co.
 For first, second and third grades. Colored pictures.
- Coe, Ida, & Christie, A. J.** j 372.4 C65
 Story hour readers; primer. 1913. Amer. Book Co.
 Colored pictures.

- Grover, Eulalie Osgood.** j 372.4 G94d
Deutsche sunbonnet babies; ein erstes lesebuch; deutsch von Doris Wilde. 1915. Rand.
Primer, with colored pictures.
- Grubb, Mary B. & Taylor, F. L.** j 372.4 G946
The industrial primer. 1912. Heath.
Easy reading based on the home life and interests of children, with directions for stick laying, paper folding and cutting. Illustrated.
- Holbrook, Florence.** j 372.4 H69d
Dramatic reader for lower grades. 1911. Amer. Book Co.
Well-known stories and legends, such as Little Red Riding-hood, Cinderella, Hänsel and Gretel, Robin Hood and the sad knight, and William Tell, in dialogue form for children who like to imagine themselves living with their favorite characters in forest, in palace or in fairyland.
- Ladder of learning, to be ascended early in the morning; embellished with coloured engravings.** 1835. Cook. Pittsburgh.
A primer.
- Serl, Emma.** j 372.4 S48
In the animal world. 1913. Silver. (Serl series supplementary readers.)
Contents: The cat family.—The dog family.—Seals and sea lions.—Bears.—Gnaw-ers.—The monkey family.—Thick-skinned animals.—Cud chewers.—The horse family.
Short stories, poems and brief descriptions for the younger children. Small marginal illustrations.
- Treadwell, Harriette Taylor, & Free, Margaret.** j 372.4 T71
Reading—literature; the primer adapted and graded. 1910. Row.
Contents: The little red hen.—The gingerbread boy.—The old woman and her pig.—The boy and the goat.—The pancake.—Chicken Little.—The billy goats gruff.—Little Tuppens.—Little spider's first web.
Colored pictures.
- Treadwell, Harriette Taylor, & Free, Margaret.** j 372.4 T71a
Reading—literature; first reader adapted and graded. 1911. Row.
Folk tales adapted for little children, Mother Goose rhymes, and nursery poems by Christina Rossetti and others. Colored pictures.
- Treadwell, Harriette Taylor, & Free, Margaret.** j 372.4 T71b
Reading—literature; second reader adapted and graded. 1912. Row.
The fables, folk tales and poems are arranged in related groups, "so that the child may get a body, not a mere bit, of one kind of material before passing to another."
Preface.
- Van Sickle, James Hixon, & Seegmiller, Wilhelmina.** j 372.4 V17
First reader [written with the assistance of] Frances Jenkins. 1911. Houghton. (Riverside readers.)
- Villee, Sallie Helen.** j 372.4 V33
Little-folk dialogue reader. 1912. Sower.
"May be used alone or in connection with the Primer or First Reader of any series."
Preface.
- Wiley, Belle.** j 372.4 W71
Mother Goose primer. 1910. Merrill.
Colored pictures.
- Young, Mrs Ella (Flagg), & Field, W. T. ed.** j 372.4 Y37
Young and Field literary readers; book three. 1914. Ginn.
Myths, fairy tales, Bible stories and poems arranged in groups. Illustrated.

Spelling

Eisenberg, John Linwood.

r 372.4 E41

Experimental studies in spelling to determine whether continuous repetition or repetition after an interval is more effective in memorizing. 1913. Intelligencer Print.

Thesis for Ph. D., University of Pennsylvania.

Suzzallo, Henry.

372.4 S96

Teaching of spelling; a critical study of recent tendencies in method, with an introduction by F. M. McMurry. 1913. Houghton. (Riverside educational monographs.)

Wagner, Charles Adam.

r 372.4 W13

Experimental study of grouping by similarity as a factor in the teaching of spelling; important facts revealed by the investigation and methods of computation that give a basis for comparative interpretation of results from experimental pedagogy are also included. 1912.

Thesis for Ph. D., University of Pennsylvania.

Wallin, John Edward Wallace.

372.4 W18

Spelling efficiency in relation to age, grade and sex, and the question of transfer; an experimental and critical study of the function of method in the teaching of spelling. 1911. Warwick. (Educational psychology monographs.)

"Bibliography," p.85-86.

Writing. Art

Ayres, Leonard Porter.

372.5 A98

Scale for measuring the quality of handwriting of school children. [1915.] (Russell Sage foundation—Education division. Pamphlets, no.113.)

The same. (In Russell Sage foundation—Child hygiene department. Pamphlets, no.113.).....r 361.6 R91cp no.113

Freeman, Frank Nugent.

372.5 F91

Teaching of handwriting. 1914. Houghton. (Riverside educational monographs.)

Appendix contains specimens of handwriting.

——Charts for diagnosing faults in handwriting.....372.5 F91a

Houston, Harry.

q 372.5 H83

Guide for rating and correcting handwriting. 1914. Privately printed.

Plaisted, Laura L.

372.5 P67

Handwork and its place in early education. 1913. Clarendon Press.

"Books of reference" at end of most chapters.

A discussion of Froebel's gifts and occupations is followed by a review of the various forms of handwork suited to train the faculties of young children. Full instruction is given in paper cutting, light woodwork, needlework, drawing, basketry, weaving and modeling in clay. Many excellent illustrations of work actually done by children.

Sargent, Walter. 372.5 S24

Fine and industrial arts in elementary schools. 1912. Ginn.

Aims to answer the following questions: What are the distinctive functions of the various subjects taught under the head of manual arts in elementary schools? How shall instruction be organized so that progress shall be evident from year to year? What are reasonable standards of attainment at any given stage?

Thorndike, Edward Lee. 372.5 T39

Teachers' estimates of the quality of specimens of handwriting. 1914. (Teachers College record, v.15, no.5.)

The same. 1914. (In Teachers College record, v.15, p.279-281.)qr 370.5 T26 v.15

Paltanavičia, M. 372.51 P21

Mokinkimės rašyti; knyga mokintis rašyti su paaškinimais akcentų ir rašto ženklelių. 1909.

Language. Literature. Story-telling

Cooley, Mrs Alice (Woodworth). 372.6 C78

Language teaching in the grades. 1913. Houghton. (Riverside educational monographs.)

Mrs Cooley believes that the foundation of good language teaching must be laid in the proper teaching of literature. She devotes half the monograph to a discussion of methods of literature instruction and then describes how adequate drill on the formal side of language work may be provided. *Condensed from Educational review, 1913.*

Keyes, Angela Mary. 372.6 K23

Stories and story-telling. 1915. Appleton.

"All the stories...have been tested with children. Favorites easily available in other collections have been omitted. The seventy-five or more very short stories intended to help young children to express observations, experiences and fancies, have been included at the request of many teachers." *Preface.*

Shedlock, Marie L. 372.6 S54

Art of the story-teller. 1915. Appleton.

Contents: The art of story-telling.—The stories: Sturla, the historian; A saga; The legend of St. Christopher; Arthur in the cave; Hafiz, the stone-cutter; To your good health; The proud cock; Snegourka; The water nixie; The blue rose; The two frogs; The wise old shepherd; The folly of panic; The true spirit of a festival day; Filial piety; Three stories from Hans Christian Andersen: The swineherd; The nightingale; The princess and the pea.—List of stories and books suggested to the story-teller and books referred to in the list of stories.

Welch, John S. 372.6 W47

Literature in the school; aims, methods and interpretations. 1910. Silver.

"Helpful books for teachers," p.231-232.

Aims to show the place of literature in the elementary school and to help the teacher in its presentation. The larger part of the book consists of literary selections, with suggestions for teaching them.

Geography. History

Dodge, Richard Elwood, & Kirchwey, C. B. 372.89 D67

Teaching of geography in elementary schools. 1913. Rand.

"References" at the end of each chapter; "Selected reference list for teachers," p.211-216; "List of valuable collateral reading," p.234-236.

"The outgrowth of wide and practical experience. The physiographic work is well done and if there could be any substantial criticism, it is that the historical side of geography might well have been more strongly emphasized." *Educational review, 1914.*

Tryon, Rolla Milton.

r 372.89 T78

Materials, methods and administration of history study in the elementary schools of the United States. [1912.] (Indiana University. Bulletin, 1912, v.10, no.9.)

373 Preparatory schools

qr 373.7 K34

Knick knacks [monthly], Nov. 1911–Nov. 1915, Feb. 1917. v.1–v.5, no.5; v.7, no.3. 1911–17. [Pittsburgh.]

v.5, no.2, May 1915, wanting.

None published for July–Sept.

Issued by the students of Shadyside Academy.

Sargent, Porter Edward, *pub.*

r 373.7 S24

Handbook of American private schools; an annual publication, 1915–16. 1915–16.

Volume for 1915 title reads "Handbook of the best private schools of the United States and Canada."

r 373.7 S52

Shady Side academian, school years '97–'00. v.2–3. [Pittsburgh.]

For v.1 see preceding catalogue, v.6.

374 Self-education and culture

Social centers

New York Social Center Committee for the Wider Use of School Properties.

r 374 N26

A year's experiment in social center organization; an account of the activities conducted in public school 63, Manhattan, by C. S. Childs, organizing secretary. [1913.]

Perry, Clarence Arthur.

374 P44e

Educational extension. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Perry, Clarence Arthur.

374 P44

How to start social centers. 1913. (Russell Sage foundation.)

"References," p.33.

May serve to introduce his "Wider use of the school plant," since it solves questions of preliminary organization and suggests means of removing legal obstacles, adapting the school building, arousing public sentiment, etc.

Ward, Edward Joshua, *ed.*

374 W21

The social center. 1913. Appleton. (National Municipal League series.)

"Bibliography," p.344–351.

Author was supervisor of social center development at Rochester, N. Y., 1907–10, and is (1913) adviser in civic and social center development under the University Extension division of the University of Wisconsin. He believes that the school-house should be thoroughly utilized for community purposes, that it should be the place for political discussion and for voting, for the branch public library, the motion picture theatre, the employment and public health office, and the lecture, musical, festival and recreation center.

Conversation

Conklin, Mary Greer.

374-1 C75

Conversation; what to say and how to say it. 1912. Funk.

Considers such topics as discussion *versus* controversy, gossip, what guests should talk about at dinner, talk of host and hostess at dinner, interruption in conversation, etc.

Women's clubs. Study clubs

Burrell, Caroline Benedict, (*pseud.* Caroline French Benton). 374-3 B94

Woman's club work and programs; or, First aid to club women. 1913. Estes.

The same.....r 374-3 B94

Contains an introductory chapter on organization and about 20 well-arranged programs, together with suggestions for developing the topics, and lists of books for reference.

Cass, Alice Hazen, *comp.*

r 374-3 C25

Practical programs for women's clubs; a compilation of study subjects for the use of women's clubs and similar organizations. 1915. McClurg.

Contains numerous references.

r 374-3 O16

Official register and directory of the women's clubs in America, 1913-16. v.15-18. 1913-16.

Edited and published by H. M. Winslow.

For v.12-14 see preceding catalogue, v.6.

Pittsburgh, Teachers' Art Club.

r 374-3 P67

Year book, 1912/13. [Pittsburgh.]

Roberts, Kate Louise, *comp.*

374-3 R53

Club woman's handybook of programs and club management. 1914. Funk.

"Books and courses of study," p.173-177; "Book lists," p.181-184.

The same.....r 374-3 R53

Contains suggested subjects and outlines, followed by 18 topics more fully developed for use as programs. Closes with parliamentary definitions and information about literary aids for club workers.

Wilson (H. W.) Co. *pub.*

r 374-3 W76

Study outline series. [no.1-18.] 1915-16.

no.1. Contemporary drama.

no.2. Contemporary English literature.

no.3. Italian art.

no.4. South America.

no.5. South America, past and present.

no.6. England and Scotland; history and travel.

no.7. United States since the Civil war.

no.8. Present day industries in the United States.

no.9. Mexico.—Panama.

no.10. Home economics.—Dietetics.

no.11. Municipal civics.

no.12. Active citizenship.

no.13. Slav peoples.

no.14. Studies in modern plays.

no.15. Woman suffrage.

no.16. Travel in the United States.

no.17. The city beautiful.

no.18. Early American literature.

Contains bibliographies.

- Wisconsin**—Free library commission. r 374.3 W81
 Study outlines. no.23. 1909.
 no.23. History of Wisconsin, 1634-1909.
 No more published.
 For no.1-22 see preceding catalogue, v.6.
- Wood, Mrs Mary I. (Stevens).** 374.3 W85
 History of the General Federation of Women's Clubs for the first
 22 years of its organization. 1912.
The same.....r 374.3 W85
 Published by the authority of the biennial convention at Cincinnati, and under the
 direction of the Executive committee.

Extension courses

- Oregon High School Debating League.** r 374.4 O28
 Announcements for the year 1911/12-1916/17, list of officers, con-
 stitution and by-laws, propositions for debate, bibliographies, debate
 libraries and notes.
 For volumes for 1910/11 see preceding catalogue, v.6.
- New York (city)**—Education department. r 374.5 N26
 Annual report of the supervisor of lectures, 1908/09, 1911/12-1914/15.
 Reports for 1908/09-1914/15 include boroughs of Manhattan and Bronx, Brooklyn,
 Queens and Richmond.
 For other reports see preceding catalogue, v.6.
- Pennsylvania University.** r 374.5 P39
 University lectures delivered by members of the faculty in the free
 public lecture course, 1913/14-1914/15. 1915.

375 Curriculum

- Allegheny county, Pa.**—County superintendent of schools. r 375 A42
 Course of study for the schools of Allegheny county, Pennsylvania,
 based upon the syllabus prepared by State school department. 1915.
- Bobbitt, John Franklin.** 375 B57
 What the schools teach and might teach. 1915. Survey committee
 of the Cleveland foundation. (Cleveland Education Survey.)
- Flexner, Abraham.** r 375 F63
 A modern school. 1916. (General Education Board. Occasional
 papers, no.3.)
- Gilbert, Charles Benajah.** 375 G38
 What children study and why; a discussion of educational values in
 the elementary course of study. 1913. Silver.
 Sensible and vigorous discussion of the school curriculum.
- Indiana**—Public instruction department. r 375 I24
 State manual and uniform course of study for the elementary schools
 of Indiana, 1911-15. 1911-14.
 With manuals for 1911-14 is bound "Uniform course of study for the commissioned,
 certified and accredited high schools of Indiana, 1911-1914."
 Title of manual for 1914-15 reads "Uniform course of study for the elementary
 schools of Indiana."

- Macfarlane, Charles William.** qr 375 M15
The place of philosophy and economics in the curriculum of a modern university; read in part as the founder's day address, Lehigh University, Oct. 4, 1913. 1913. Lippincott.
- Ohio**—State commissioner of common schools. r 375 O18a
Elementary course of study. 1915.
The same. 1912.....r 375 O18
Title reads "Manual of uniform course of study for the elementary schools of Ohio."
Written by teachers of experience in their special fields to show the elementary teacher the best methods of presenting the various studies. Outlines and reference lists are provided but no particular text-books are recommended.
- Pennsylvania**—Public instruction department. 375 P39
Course of study for the elementary schools of Pennsylvania, 1912. 1912.
"Suggested list of books for small library," p.98-102.
With this is bound "Outline of agriculture for the elementary schools of Pennsylvania, 1912."
The same.....r 375 P39
- Pennsylvania**—Public instruction department. r 375 P39m
Manual for borough and township high schools in Pennsylvania. 1914.
Contains lists of books for teachers.
"Outlines of high school studies are designed to aid teachers and directors in their efforts to make high schools efficient." *Preface.*
- Pittsburgh**—Public education board. r 375 P674p2
Handbook of information; Pittsburgh public high schools. 1916. [Pittsburgh.]
The same. 1913. [Pittsburgh.].....r 375 P674p
Title reads "Pittsburgh public schools; course of study for high schools."
- Pittsburgh**—Public education board. r 375 P674
Pittsburgh public schools, 1912-13; preliminary outlines of the courses of study for the elementary schools [and] Revision of preliminary outlines, 1913/14. [1912-13. Pittsburgh.]
Organization and name of board changed in 1911. For earlier reports see Pittsburgh—Education, Central board of.
- Wisconsin University.** r 375 W81
Bulletin; high school series. no.11-13. 1912-13.
no.11-13. The teaching of manual arts, by F. D. Crawshaw and R. W. Selvidge.—
The high school course in agriculture, by K. L. Hatch.—Requirements for admission to the freshman English course (English 1).
For no.1-10 see preceding catalogue, v.6.

Study of Greek and Latin

- Downer, James Walker.** r 375.8 D77
A plea for Latin. 1916. (Baylor University. Bulletin, v.19, no.1.)
- Harrington, Karl Pomeroy.** 375.8 H28
Live issues in classical study. 1910. Ginn.
Contents: Dry bones and living spirit.—A fair chance for the classics.—The "Latinity" fetish.—The use of translations.
Four short essays emphasizing the vitality of the classics and their abiding influence upon literature.

Kelsey, Francis Willey, ed. 375.8 K17

Latin and Greek in American education, with symposia on the value of humanistic studies. 1911. Macmillan.

Contents: The present position of Latin and Greek; The value of Latin and Greek as educational instruments; Latin and Greek in our courses of study, by F. W. Kelsey.—The nature of culture studies, by R. M. Wenley.—SYMPOsia: Medicine.—Engineering.—Law.—Theology.—Practical affairs.—The new education.—Formal discipline.

376 Education of women

Association of Women Students in Leyden. r 376 A84

Een wereldcorrespondentie van meisjes-studenten; opstellen uit verschillende staten over vrouwenstudie. 1910.

Binder's title reads "A world correspondence of women-students."

Papers in Dutch, German, French and English forming a survey of the development of education for women in various countries.

Briggs, LeBaron Russell. 376 B74

Girls and education. 1911. Houghton.

Contents: To the girl who would cultivate herself.—To schoolgirls at graduation.—To college girls.—College teachers and college taught.

Four papers by the president of Radcliffe College and dean of Harvard University (1911).

Brown, Helen Dawes. 376 B78

Talks to freshman girls. 1914. Houghton.

Contents: "Studies serve for delight, for ornament and for ability."—Real readers.—The use of the pen.—Everyday living.

Burton, Margaret Ernestine. 376.9 B95

Education of women in China. 1911. Revell.

Fairly comprehensive account of what has thus far been accomplished by mission schools for the instruction of girls in China. Author, after a six months' visit in China in 1909, returned to this country to "learn from the best available authorities the character of such education for women as existed before the entrance of Western influences, and to trace the history of modern education, using, as far as possible, original sources." Her knowledge of the subject amply qualifies her to write a book of considerable interest and usefulness. *Condensed from Nation, 1911.*

Thwing, Charles Franklin. 376.6 T431

Letters from a father to his daughter entering college. 1913. Platt.

Read in part before President Thwing's students at Western Reserve University. Both paternal and academic in tone. Their aim is to set before the college woman the ideals which should inspire her during her course.

Grant, Cecil, & Hodgson, Norman. 376.7 G78

The case for co-education. 1913. Richards.

"Authors expound the advantages of co-education from every point of view, together with the results of such training in America. There are chapters on the characteristics of boys and girls, their mental differences, and the influences of school upon each. Much quotation occurs...In the historical treatment of the subject the Woman Movement receives its due share." *Athenaeum, 1913.*

Colleges for women

Mount Holyoke College. qr 376.8 M94

General catalogue of officers and students, 1837-1911. 1911.

Mount Holyoke College. r 376.8 M94m

Mount Holyoke College; the 75th anniversary, South Hadley, Mass., Oct. 8-9, 1912. 1913.

qr 376.8 R12

Radcliffe college; illustrated with drawings by J. A. Seaford. 1913. Humphrey.

A few pages of text tracing the growth of the college serve as introduction to the exquisite drawings.

qr 376.8 S64c3

Smith College. Catalog of officers, graduates and nongraduates, 1875-1915. 1916. Alumnae Assoc. of Smith College.

Includes report of the Alumnae Association of Smith College, 1914-15.

376.8 V231

Letters from old-time Vassar, written by a student in 1869-70. 1915. Vassar College.

Interesting letters, revealing much of the spirit of the students. We read of strict rules and interminable "chapel," but also of long rides in the country with the German baron who was the riding master; of long walks for sketching, and of holidays and midnight spreads. The writer was blessed with a sense of humor and a determination to get all the enjoyment there was in life. *Condensed from Boston evening transcript, 1916.*

Norris, Mary Harriott. 376.8 V23n

Golden age of Vassar. 1915. Vassar College.

"A member of this class ['69] describes the life of the infant days of the college, tells of the enthusiasm which animated everyone connected with its beginning, of the kind of study, and...of the new opportunities for meeting students from all parts of the country...She speaks with the deepest affection...of the first lady principal, Miss Lyman, and describes many of the professors of the early days." *Boston evening transcript, 1916.*

Taylor, James Monroe. 376.8 V23t

Before Vassar opened; a contribution to the history of the higher education of women in America. 1914. Houghton.

Excellent survey of the early educational opportunities for women in America, followed by a history of Vassar College to the death of its founder, 1868.

Taylor, James Monroe, & Haight, E. H. 376.8 V23ta

Vassar. 1915. Oxford University Press. (American college and university series.)

"Partial list of sources for the history of Vassar College," p.224-226.

Converse, Florence. 376.8 W48c

Story of Wellesley. 1915. Little.

Covers the 44 years from the founding of the college in 1871, to 1916. Contains a number of striking illustrations by Norman Irving Black.

377 Religious and ethical education

See also Moral education, 170.7

Brownlee, Jane. 377 B82

Character building in school. 1912. Houghton.

Miss Brownlee's methods of moral instruction for young children were successfully worked out in the public schools of Toledo, Ohio, and have attracted favorable attention. Her handbook will be of practical value to the teacher who finds in the class room the daily opportunity to teach the meaning of character.

Bryan, Elmer Burritt. 377 B84

Fundamental facts for the teacher. 1912. Silver.

Chapters on character-building in school.

Gould, Frederick James.

377 G73

Moral instruction; its theory and practice. 1913. Longmans.

"Mr. Gould taught for twenty-five years in elementary schools, and assisted in 1897 in the foundation of the Moral Instruction League, of which he is official instructor and demonstrator...Book...sets forth in a practical way the teaching recommended by the League. Some of the matter is of necessity controversial, but teachers...will find the book suggestive and helpful." *Athenæum*, 1913.

Hall, Arthur Jackson.

377 H16

Religious education in the public schools of the state and city of New York; a historical study. 1914. University of Chicago Press.

"Bibliography," p.7-10.

Thesis for Ph. D., University of Chicago.

International Moral Education Congress (2d),
The Hague, 1912.

r 377 I248

Papers contributed by American writers and review of recent American literature on moral education. [1912.]

Moral Education League, London.

r 377 M88

Committee's annual report (9th-10th, 15th-18th), 1906-07, 1912-15.
1909-16.

The league stands for the furtherance of an effective moral education in schools. Until Feb. 1909 the name of this society was Moral Instruction League.

For other volumes see preceding catalogue, v.6, under Moral Instruction League, London.

National Education Association—National council
of education.

r 377 N15

Tentative report of the Committee on a system of teaching morals in the public schools. [1911.]

Reprinted from "Proceedings" of the National Education Association, San Francisco, July 1911.

Religious Education Association.

r 377 R32 v.0

Index to all publications of the association from Feb. 1903 to Feb. 1909.

Sneath, Elias Hershey, & Hodges, George.

377 S67

Moral training in the school and home; a manual for teachers and parents. 1913. Macmillan.

Contains bibliographies.

"Eschews ethics as a subject for direct teaching and lays the emphasis upon such indirect instruction as may be given in connection with the ordinary every-day life... in the school and the home...A worthy and inspiring guide." *Educational review*, 1914.

Taylor, Charles Keen.

377 T25

Character development; a practical graded school course, correlating lessons in general morals, citizenship, domestic science, physical training, vocational guidance and recreation. 1913. Winston.

"Bibliography," p.240-241.

Whitney, William T.

377 W65

Moral education; an experimental investigation. 1915. Phillips.

Based on a study of the home and school life of 600 boys and 600 girls in the elementary grades. The object of the investigation, which covered a period of five years, was to determine the relation existing between moral and religious instruction and actual every-day conduct.

Parish schools

Coakley, Thomas Francis.

r 377.5 C62w

Why Catholics have parochial schools. International Catholic Truth Soc.

Burns, James Aloysius.

377.8 B93g

Growth and development of the Catholic school system in the United States. 1912. Benziger.

"Bibliography," p.382-390.

Continuation of his "Catholic school system in the United States," following the history of the subject from 1840 to 1912.

Stuart, Janet Erskine.

377.8 S93

Education of Catholic girls, with a preface by Cardinal Bourne. 1912. Longmans.

Contents: Religion.—Character.—The elements of Catholic philosophy.—The realities of life.—Lessons and play.—Mathematics, natural science and nature study.—English.—Modern languages.—History.—Art.—Manners.—Higher education of women.—Conclusion.—APPENDICES: Extract from "The blessed sacrament," by Father Faber; From a pastoral letter of Cardinal Bourne, archbishop of Westminster, written when bishop of Southwark, Quinquagesima Sunday, 1901.

378 Higher education

Canby, Henry Seidel.

378 C16

College sons and college fathers. 1915. Harper.

Contents: The undergraduate.—The undergraduate background.—The professor.—The luxury of being educated.—College life and college education.—Culture and prejudice.—The colleges and mediocrity.—Current literature and the colleges.—Writing English.—Teaching English.

Deming, Seymour.

378 D42

The pillar of fire; a profane baccalaureate. 1915. Small.

A socialist's indictment of the conservative, reactionary spirit of the colleges.

Flexner, Abraham.

378 F63

The American college; a criticism. 1908. Century.

"The writer believes that the American college...is seriously defective in both spirit and method...The elective system...impoverishes by premature specialism and wastes energy by aimless distribution...[He] traces the difficulty back to the...want of proper relation between the college and the secondary school...[The latter] is largely a 'cramming machine'...The freshman passes out from a very irksome drill into a sudden freedom of choice for which he has had no preparation. Mr. Flexner is iconoclastic, and yet at the same time constructive." *Literary digest*, 1909.

Lockwood, Francis Cummins, comp.

378 L76

The freshman and his college; a college manual. 1913. Heath.

"Bibliography," p.155-156.

"Attempts to supply students entering college with the counsel and direction necessary to prevent waste of time and opportunity during the first year...Larger part of the volume is composed of essays and addresses by leading educators on the function of higher education and the spirit which should actuate one in the pursuit of it...Book is marked by wholesome frankness and candor, constraining appeal to manly instinct, and good sense stated in a plain, honest fashion. It furnishes in brief compass some of the best recent utterances on college ideals and student temptations." *Nation*, 1913.

Rice, Richard, *ed.*

378 R39

College and the future; essays for the undergraduate on problems of character and intellect. 1915. Scribner.

Contents: Learning to write, by Richard Rice.—The question of style, by Arnold Bennett.—Life at Oxford, by John Corbin.—Tom Brown's letter from St. Ambrose's college, by Thomas Hughes.—The social value of the college-bred, by William James.—What is a college for? The training of intellect, by Woodrow Wilson.—University athletics, by Simon Newcomb.—Panem et circenses, by Richard Rice.—Idols, by C. M. Gayley.—An address to freshmen, by W. de W. Hyde.—Knowledge viewed in relation to learning, by J. H. Newman.—The college curriculum, by Richard Rice.—Losing one's religion; a student experience, by H. T. Colestock.—The religion of a college student, by F. G. Peabody.—Inaugural address, by Alexander Meiklejohn.—The strenuous life, by Theodore Roosevelt.—An apology for idlers; Crabbed age and youth, by R. L. Stevenson.—Thinking for yourself, from the London "Times."—The discovery of the future, by H. G. Wells.—The great analysis, anonymous.—The unity of human nature, by J. J. Chapman.

Bibliography, p.371-374.

Thwing, Charles Franklin.

378 T431

Letters from a father to his son entering college. 1912. Platt.

Thwing, Charles Franklin.

378 T43u

Universities of the world. 1911. Macmillan.

Contents: The University of Oxford.—The University of London.—The University of Paris.—The University of Leiden.—The University of Upsala.—The University of Madrid.—The University of Geneva.—The University of Rome.—The University of Athens.—The University of Berlin.—The University of Vienna.—The University of Budapest.—The University of St. Petersburg.—The University of Bucharest.—Robert College on the Bosphorus.—The University of Cairo.—The University of Calcutta.—The University of Melbourne.—The University of Peking.—The University of Tokyo.

The same.....r 378 T43

Todhunter, Isaac.

378 T55

Conflict of studies, and other essays on subjects connected with education. 1873. Macmillan.

Other essays: Competitive examinations.—Private study of mathematics.—Academical reform.—Elementary geometry.—The mathematical tripos.

Association of Alumni Secretaries.

r 378.068 A84

Report of the conference (1st-3d), 1913-14. [1913-14.]

Colleges and universities

Cattell, James McKeen.

378.1 C28

University control; together with a series of 299 unsigned letters by leading men of science and articles by Joseph Jastrow [and others]. 1913. Science Press. (Science and education, v.3.)

"Professor Cattell's...contributions are in part expository and even more an attack upon the present preponderancy of the university president. His chief recommendation is that the president, with reduced salary and prerogatives, should be elected by the faculty, and the trustees by a large corporation of alumni and voluntary associates." *Nation*, 1913.

Godfrey, Hollis.

r 378.1 G55

The institutional budget. 1916. (United States—Education bureau. Higher education circular.)

Pamphlet by the president (1916) of Drexel Institute, Philadelphia, outlining certain practical methods adopted by the Drexel Institute to insure freedom from budget difficulties.

National University Extension Association. r 378.1 N15
 Proceedings (1st-2d), 1915-16. 1915-16.

Mathews, Mrs Lois (Kimball). 378.11 M47

The dean of women. 1915. Houghton.

Contents: The dean of women; her position.—The problem of living conditions and their relation to social conditions.—The problem of student employment.—Vocational guidance.—Self-government associations.—The social life of students.—Problems of student discipline.—The intellectual life of students.—Conclusion.—Appendix.

"The duties of the dean of women, divided into administrative, academic and social, are treated in detail, in connection rather with the office in a co-educational than in a woman's college. Qualifications for a person filling such a position are presented. College problems are...discussed...practical suggestions are made for raising standards... Appendix A contains the rules of the self government association of the University of Wisconsin, where the author is dean of women." *Book review digest*, 1915.

American Association of University Professors. r 378.121 A51

Report of the Committee on academic freedom and academic tenure, Dec. 1915. [1916.]

The same. (In its Bulletin, v.1, p.17-43.).....r 378.7 A512

Foreign universities

Bloxam, John Rouse, comp. r 378.4 B56

Magdalen College and King James II, 1686-1688; a series of documents. 1886. Clarendon Press.

"Bibliography," p.40-41.

Printed for the Oxford Historical Society.

Brodrick, George Charles. r 378.4 B76

Memorials of Merton College, with biographical notices of the wardens and fellows. 1885. Clarendon Press.

Printed for the Oxford Historical Society.

Cambridge University, England. r 378.4 C14

Calendar for the year 1915-16. 1915. Cambridge University Press.

r 378.4 C69

Collectanea; 1st-2d ser. v.1-2. 1885-90. Clarendon Press.

v.1. Letters relating to Oxford in the 14th century, from originals in the Public record office and British Museum [ed.] by H. H. Henson.—The catalogue of the library of Oriel College in the 14th century [ed.] by C. L. Shadwell.—The daily ledger of John Dorne, 1520 [ed.] by F. Madan.—All Souls College versus Lady Jane Stafford, 1587 [ed. by C. R. L. Fletcher].—The account-book of James Wilding, 1682-1688 [with introduction] by E. G. Duff.—Dr Wallis' letter against Mr Maidwell, 1700 [ed.] by T. W. Jackson.

v.2. The Oxford market, by Octavius Ogle.—The University of Oxford in the 12th century, by T. E. Holland.—The friars preachers of the University, by H. Rashdall.—Notes on the Jews in Oxford, by A. Neubauer.—Linacre's catalogue of Grocyn's books, followed by a memoir of Grocyn [ed.] by Montagu Burrows.—Table-talk and papers of Bishop Hough, 1703-1743 [ed.] by W. D. Macray.—Extracts from the "Gentleman's magazine" relating to Oxford, 1731-1800, by F. J. Haverfield.—Corrections and additions to Collectanea, v.1, including an edition of two new leaves of the ledger of John Dorne, bookseller at Oxford in A. D. 1520, by F. Madan.—Notes on the former edition of Dorne's "Day-book," by Henry Bradshaw.

v.1 is ed. by C. R. L. Fletcher.

v.2 is ed. by Montagu Burrows.

Printed for the Oxford Historical Society.

Couch, Lilian M. Quiller, ed. r 378.4 C83

Reminiscences of Oxford by Oxford men, 1559-1850. 1892. Clarendon Press.

Printed for the Oxford Historical Society.

- Durand, Ralph.** q 378.4 D93
Oxford; its buildings and gardens, with drawings in colour by W. A. Wildman. 1909. Richards.
Light and readable sketches of the colleges, their history, customs and traditions.
- England—Education department.** r 370 E64 v.25
Universities in the overseas dominions. 1912. (In its Special reports on educational subjects, v.25.)
Universities included are those of Canada, Australia, New Zealand, South Africa and Malta.
- Fowler, Thomas.** r 378.4 F84
History of Corpus Christi College, with lists of its members. 1893. Clarendon Press.
Printed for the Oxford Historical Society.
- France, Office National des Universités et Écoles Françaises.** r 378.4 F86
Les universités et les écoles françaises: enseignement supérieur; enseignements techniques; renseignements généraux. 1914.
- Gibbs, A. Hamilton.** 378.4 G36
The compleat Oxford man, with preface by Cosmo Hamilton. 1911. Skeffington.
He tells about a great many of the things young men do at Oxford, and a few that old men do. He shows the freshman and the fourth-year man, the rowing-man and the examinee. He pursues the undergraduate out of Oxford, to the regatta-week at Henley, and to his bed at home. He has a talent for observation, great sincerity, a fund of kindly and generous appreciativeness, and he has been an undergraduate himself. *Condensed from Academy, 1911.*
- Gray, Arthur, M. A.** 378.4 G81
Cambridge and its story. [1912.] Methuen.
Sketches the history of the different colleges from their beginning and by means of a few typical figures illustrates the tendencies and ideals of Cambridge from century to century. Illustrated.
- Jones, Emily Elizabeth Constance.** 378.4 J39
Girton College. 1913. Black. (Beautiful Britain.)
"Authorities and sources," p.63.
Compact account of its origin, growth and present condition. Contains list of former Girton scholars who have achieved distinction. Well illustrated.
- Oxford University.** r 378.4 O352
Register of the University of Oxford. 2v. in 5. 1883-89. Clarendon Press.
v.1. 1449-63, 1505-71; ed. by C. W. Boase.
v.2, pt.1. 1571-1622; introductions; ed. by Andrew Clark.
v.2, pt.2. 1571-1622; matriculations and subscriptions; ed. by Andrew Clark.
v.2, pt.3. 1571-1622; degrees; ed. by Andrew Clark.
v.2, pt.4. 1571-1622; indexes; ed. by Andrew Clark.
Printed for the Oxford Historical Society.
- Oxford University, Exeter College.** r 378.4 O3522
Registrum Collegii Exoniensis; register of the rectors, fellows and other members on the foundation of Exeter College, Oxford, with a history of the college and illustrative documents by C. W. Boase. 1894. Clarendon Press.
"List of authorities," p.179-183.
Printed for the Oxford Historical Society.

Paetow, Louis John.

qr 378.4 P13

The arts course at medieval universities, with special reference to grammar and rhetoric. 1910.

"Bibliography," p.113-134.

Thesis for Ph. D., University of Pennsylvania.

Reprinted from the "University studies" of the University of Illinois, v.3, no.7, Jan. 1910.

Parkin, George Robert.

378.4 P24

The Rhodes scholarships. 1912. Houghton.

By the secretary (1913) of the Rhodes scholarship trust. A brief but fully informed biography of Cecil Rhodes is followed by chapters on the system of education at Oxford, on its social life, athletics and the special opportunities and responsibilities of Rhodes scholars, with practical suggestions for making the most of study there.

Plummer, Charles, ed.

r 378.4 P72

Elizabethan Oxford; reprints of rare tracts. 1887. Clarendon Press.

Printed for the Oxford Historical Society.

Radcliffe, Richard, & James, John.

r 378.4 R12

Letters of Richard Radcliffe and John James of Queen's College, Oxford, 1755-83, with additions, notes and appendices; ed. by Margaret Evans. 1888. Clarendon Press.

Contains also letters by John James, jr. and Jonathan Boucher.

Printed for the Oxford Historical Society.

St. Andrews University.

r 378.4 S13

Calendar for the year 1912/13-1915/16. 1912-15. Blackwood.

For volumes for 1907/08-1911/12 see preceding catalogue, v.6.

Sollas, Igerna B. J.

r 378.4 S68

Story of Newnham College. 1912. Heffer.

Appeared in the "Christian science monitor."

Brief sketch of Newnham College, Cambridge, with portraits of its first two principals, Miss A. J. Clough and Mrs Henry Sidgwick. Contains also a portrait and sketch of Henry Sidgwick, friend of the college.

Sydney (N. S. W.) University.

r 378.9 S98

Calendar for the year 1911[-12]. 1911. Angus.

American colleges and universities

378.7 A51

The American college; a series of papers setting forth the program, achievements, present status and probable future of the American college, with introduction by W. H. Crawford. 1915. Holt.

r 378.7 A51

American college and private school directory, 1911. v.5. 1912. Educational Aid Society.

v.5 comp. by H. J. Myers.

Babcock, Kendric Charles.

r 378.7 B11

Classification of universities and colleges with reference to bachelor's degrees. 1911.

With this is bound "An explanatory statement in regard to 'A classification of universities and colleges with reference to bachelor's degrees,'" by P. P. Claxton.

Issued by the United States education bureau.

College Entrance Examination Board. 378.7 C69

Questions set at the examinations held 1910-16. 1910-16. Ginn.

Uniform college admission examinations, agreed upon by the board and held at convenient points throughout the United States. Certificates issued by the board are accepted in almost every college and university of the country.

For earlier volumes see preceding catalogue, v.4, 6.

Cooper, Clayton Sedgwick. 378.7 C78

Why go to college? 1912. Century.

Appeared in the "Century magazine," v.83-84, Jan.-May 1912, under the title "The American undergraduate."

"Popular chapters, resulting from visits to more than 500 American colleges. They analyze the characteristics of undergraduates and of the education offered them, with its tendency to become utilitarian, recount miscellaneous anecdotes of college life and consider briefly reasons for going to college and the effect of college education on after life... Attractive illustrations from drawings and etchings." *A. L. A. booklist*, 1912.

Gauss, Christian. 378.7 G24

Through college on nothing a year; literally recorded from a student's story. 1915. Scribner.

Thwing, Charles Franklin. 378.7 T43a

The American college; what it is, and what it may become. 1914. Platt.

Author is (1914) president of Western Reserve University. He discusses the purpose of a college education, the duties of president, faculty and trustees, the work of the student, co-education, college life and the financial relations of the college.

United States—Education bureau. r 378.7 U2533

Federal laws, regulations and rulings affecting the land-grant colleges of agriculture and mechanic arts. 1916.

United States—Education bureau. r 370 U25

Statistics of state universities and other institutions of higher education partially supported by the state, for the year ended June 30, 1911-date. 1912-date. (In its Bulletin, 1911-date.)

For volume for 1908-10 see preceding catalogue, v.6.

r 378.7 U2532

The University quarterly; conducted by an association of collegiate and professional students in the United States and Europe, 1860-Oct. 1861. v.1-4. 1860-61.

v.1, no.1, Jan. 1860, title reads "The Undergraduate."

No more published.

Wilson, Calvin Dill. 378.7 W76

Working one's way through college and university; a guide to paths and opportunities to earn an education at American colleges and universities. 1912. McClurg.

American college publications and histories

Smith, Ernest Ashton. r 378.7 A42s

Allegheny; a century of education, 1815-1915. 1916. Allegheny College History Co.

History of Allegheny College, written to commemorate the 100th anniversary of its founding.

Baylor University. r 378.7 B33

Alumni directory, 1854-1914. 1914.

Bowdoin College.

qr 378.7 B66g2

General catalogue of Bowdoin College and the Medical School of Maine, 1794-1912. 1912.

Contains also a "General catalogue of the non-graduates, 1794-1915," and "Degrees conferred since 1912."

Brown daily herald.

qr 378.7 B78br

Souvenir edition published in connection with the celebration of the 150th anniversary of the founding of Brown University, held Oct. 11-14, 1914. 1914.

Brown University.

qr 378.7 B78s

Sesquicentennial of Brown University, 1764-1914; a commemoration. 1915.

Bronson, Walter Cochrane.

qr 378.7 B78b

History of Brown University, 1764-1914. 1914. Brown University. "Bibliography," p.522-534.

r 378.7 U253

University of Chicago magazine, Nov. 1911-date. v.4-date. 1911-date. Published eight times a year.

Goodspeed, Thomas Wakefield.

r 378.7 C43go

History of the University of Chicago, founded by J. D. Rockefeller; the first quarter-century [1891-1916]. 1916. University of Chicago Press.

Colorado University.

r 378.7 C722

General catalogue of the officers and graduates of the University of Colorado, 1877-1910. 1911. Boulder Pub. Co.

Colorado University.

qr 378.7 C722s

Studies [quarterly], Dec. 1910-date. v.8-date. 1910-date.

Colorado University—Library.

r 378.7 C7222

Writings and addresses by officers of the University of Colorado, 1877-1913; comp. by C. H. Smith. 1914. (University of Colorado bulletin, v.14, no.4, library series no.2.)

A bibliography of books, pamphlets, periodical articles and public addresses.

Columbia University, New York.

r 378.7 C720

Catalogue of officers and graduates, 1754-1912. 1912.

Columbia University, New York.

r 378.7 C72de

The Deutsches haus of Columbia University in the city of New York, 1911-12. [1912. Cosmus.]

Columbia University, New York.

r 378.7 C72u

University bibliography, 1911-15. 1912-16.

Continuation of the bibliography hitherto published annually in the March number of the "Columbia University quarterly."

For volumes for 1909-10 see preceding catalogue, v.6.

Keppel, Frederick Paul.

378.7 C72k

Columbia. 1914. Oxford University Press. (American college and university series.)

By the dean (1914) of Columbia College. The arrangement is topical rather than chronological, and the topics are handled with unflagging interest, however concisely. The tale of development never loses itself in statistics. *Condensed from Nation, 1914.*

Cornell alumni news, Sept. 1910–Aug. 1912, Sept. 1915–Aug. 1916. v.13–14, 18. 1910–16. qr 378.7 C822

Published weekly throughout the college year, monthly in July and Aug., at Cornell University.

For v.11–12 see preceding catalogue, v.6.

Cornell University. r 378.7 C82s

Samples of entrance and scholarship examination papers, 1914. 1914. (Official publications, v.6, no.1.)

Chase, Frederick. r 378.7 D26c

History of Dartmouth College and the town of Hanover, New Hampshire; ed. by J. K. Lord. 2v. 1891. Wilson.

v.2 has title "History of Dartmouth College, 1815–1909," by J. K. Lord.

Lord, John King. r 378.7 D26c

History of Dartmouth College, 1815–1909. 1913. Rumford Press.

Being the second volume of "History of Dartmouth College and the town of Hanover, New Hampshire," begun by Frederick Chase.

Quint, Wilder Dwight. 378.7 D26q

Story of Dartmouth. 1914. Little.

Readable history of the college. Of special interest are the chapters on the famous case in which Daniel Webster saved the college from the encroachments of the legislature. Many pencil drawings by Mr Seaford.

r 378.7 H33g

Harvard graduates' magazine; index, v.1–20, May 1892–June 1912.

For volumes of magazine see preceding catalogue, v.1.

Harvard University. r 378.7 H33hd

Harvard University directory; a catalogue of men now living who have been enrolled as students in the university, including also officers of instruction and administration; comp. by a committee of the Harvard Alumni Association. 1913.

Harvard University. r 378.7 H33q4

Quinquennial catalogue of the officers and graduates, 1636–1915. 1915.

Harvard University—Class of 1853. r 378.7 H33rep

Report, 1849–1913, issued on the 60th anniversary for the use of the class and its friends, commencement 1913. 1913.

r 378.7 H33re

Harvard University register, 1912/13–1915/16. v.39–42. 1912–15.

Published by the Student council of Harvard University.

Harvard Varsity Club. r 378.7 H33ha

Harvard Varsity Club [constitution, by-laws, athletic records and lists of members]. 1912.

Foster, Francis Apthorp. r 378.7 H33f

Burning of Harvard hall 1764, and its consequences. 1911. Wilson.

Reprinted from the "Publications of the Colonial Society of Massachusetts," v.14.

Gardiner, John Hays. 378.7 H33g

Harvard. 1914. Oxford University Press. (American college and university series.)

Langstaff, John Brett, ed. r 378.7 H331

Harvard of today from the undergraduate point of view. 1913.
Harvard Federation of Territorial Clubs.

"Publications concerning Harvard," p.100-101.

Pier, Arthur Stanwood. 378.7 H33P

Story of Harvard. 1913. Little.

"[Sketches] in two hundred and fifty pages the record of the institution, with pleasant descriptions, at the outset and close, of life at the University to-day. Mr. Pier summarizes well the accounts of the more formal historians, Josiah Quincy and Benjamin Peirce, and draws abundantly from the letters and diaries of Harvard men of every period. His style is dignified, yet easy, and he shows good judgment in selecting for mention characters and events that deserve to be made salient. Little fault can be found with his presentment, except that it is incomplete." *Nation*, 1913.

Hobart College. r 378.7 H64

The installation of L. P. Powell as president of Hobart College and William Smith College, Nov. 14, 1913, Geneva, N. Y. [1914.]

Illinois University. r 378.7 I22al

Alumni record, including historical sketch and annals of the university, and biographical data regarding members of the faculties and the boards of trustees; ed. by J. H. Kelley. 1913.

Illinois University. r 378.7 I22an

Annual register, 1912/13-1915/16. 1913-16.

Illinois University. r 378.7 I22d

Directory, listing the 35,000 persons who have ever been connected with the Urbana-Champaign departments, including officers of instruction and administration and 1397 deceased; ed. by V. V. Phelps. 1916.

Illinois University. qr 378.7 I22i

Illio, 1913 [yearbook, pub. by the class of 1913 in junior year]. [1912.]

For volume for 1910 see preceding catalogue, v.6.

Illinois University. r 378.7 I22r

Report (26th-28th) of the Board of trustees, 1910/12-1914/16. 1912-16.

Indiana University. r 378.7 I242

Register of graduates, 1830-1910. [1911.] (Bulletin, v.9, no.5.)

qr 378.7 I242ar

Arbutus, 1915; the book of the senior class of Indiana University, 1915. 1915.

Iowa University. r 378.7 I25

Iowa alumnus; alumni register number, 1847-1911. 1911.

Being v.8, no.10, Sept. 1911, of the "Iowa alumnus."

Michigan University. r 378.7 M66g

General catalogue of officers and students, 1837-1911. 1912.

—Death notices, supplementary to General catalogue, June 1912-Aug. 1916. 1913-16. r 378.7 M66g2

Michigan University.

r 378.7 M66hu

Humanistic papers; from the Proceedings of the Michigan Schoolmasters' Club and Classical Conference held at Ann Arbor, Michigan, 1911-13. 2d ser. no.1-3. [1911-13?] (University bulletin.)

no.1. The languages in American education.

no.2. Reform in grammatical nomenclature.

no.3. The paradox of Oxford, by P. E. More.

Reprints from the "School review," 1911-13.

Michigan University.

qr 378.7 M66me

Memorial of the 75th anniversary of the founding of the University of Michigan, held in commencement week, June 23 to June 27, 1912. 1915.

Michigan University.

qr 378.7 M66m

Michiganensian; published annually by the senior classes of the University of Michigan, 1912-16.

For earlier volumes see preceding catalogue, v.6.

Minnesota University.

r 378.7 M72p

President's report, 1911/12-1914/15. 1913-16.

Minnesota University—General alumni association.

r 378.7 M72u

University directory. 1913.

v.13, no.8, Nov. 10, 1913 of the "Minnesota alumni weekly."

Johnson, Elwin Bird, ed.

qr 378.7 M72j

Forty years of the University of Minnesota. 1910. [University of Minnesota], General Alumni Assoc.

Missouri University.

r 378.7 M74c

Catalogue, 1912/13-date. [1913]-date.

For volumes for 1909/10-1911/12 see preceding catalogue, v.6.

Missouri University.

r 378.7 M74ch

Check list of the official serial publications of the university. 1914. (Bulletin; library series, v.2, no.2.)

Missouri University.

qr 378.7 M74

Studies; ed. by Frank Thilly. v.2, no.2-5. 1903-04.

v.2. no.2-5. Public relief and private charity in England, by C. A. Ellwood.—

Process of inductive inference, by Frank Thilly.—Regeneration of crayfish appendages, by M. I. Steele.—The spermatogenesis of anax junius, by Caroline McGill.

For v.1; v.2, no.1 see preceding catalogue, v.1.

New York (state)—Education department.

r 378.7 N26p

Proceedings of the inauguration of John Huston Finley as president of the University of the State of New York and commissioner of education, Jan. 2, 1914. 1914.

New York University, N. Y.

r 378.7 N261b

Book of the inauguration [a brief chronicle of the installation of Chancellor Brown, Nov. 1911]. 1911. (Bulletin, v.12, no.1.)

Ellis, William Arba, ed.

r 378.7 N46e

Norwich University, 1819-1911; her history, her graduates, her roll of honor; published by G. M. Dodge. 3v. 1911. Capital City Press.

- Oberlin College.** r 378.7 O12q
 Quinquennial catalogue of officers and graduates, 1905, 1916. 1905-16.
 No "Quinquennial catalogue" was issued in 1910. Its place was taken by the
 "General catalogue, 1833-1908," issued in 1909 (r 378.7 O12g).
 For volume for 1900, see preceding catalogue, v.1.
- Oregon University.** r 378.7 O28
 General register of the officers and alumni, 1873-1913. 1914.
- Pennsylvania State College.** r 630.6 P399
 Annual report, 1877-85, 1889-93, 1895. 1878-96. (In Agriculture of
 Pennsylvania).
 Since 1886, report published in two parts: pt.1. Departments of instruction. pt.2.
 Agricultural experiment station.
 For other reports see preceding catalogue, v.1.
- Pennsylvania University.** qr 378.7 P399p
 Proceedings of commencement, 1912-14. 1912-14.
 Bound with "Proceedings of 'University day.'"
 For earlier volumes see preceding catalogue, v.6.
- Pennsylvania University.** qr 378.7 P399p
 Proceedings of "University day," 1913-14. 1913-14.
 For volumes for 1898-1912 see preceding catalogue, v.6.
- Nitzsche, George Erasmus.** r 378.7 P399n
 University of Pennsylvania; its history, traditions, buildings and
 memorials; a guide for visitors. 1914. Winston.
- Pittsburgh University.** r 378.7 P67b
 [Catalogues of various schools of the University and circulars of
 information.] v.1-2. 1905-12.
 In July 1908 the name of this university was changed from Western University
 of Pennsylvania to Pittsburgh University.
- Pittsburgh University.** r 378.7 P67c
 Celebration of the 125th anniversary. [1912?] (Bulletin, v.8, no.21.)
- Pittsburgh University.** qr 378.7 P67e
 Exercises in commemoration of the 125th anniversary, Feb. 27-29,
 1912. [1912.]
- qr 378.7 P672
The Pitt weekly, Nov. 1, 1910-date. v.1, no.6-date. 1910-date. Pitts-
 burgh.
 v.1, no.17, 25-26, Feb. 1, March 29-April 5, 1911, wanting.
 Issued by the students of the University of Pittsburgh.
 Supersedes the "Western University courant."
- Princeton University.** r 378.7 P95g
 General catalogue, 1746-1906. 1908.
- Collins, Varnum Lansing.** 378.7 P95c
 Princeton. 1914. Oxford University Press. (American college and
 university series.)
 Gives the history and aims of the college from its foundation to 1914.
- West, Andrew Fleming.** qr 378.7 P9523
 Proposed graduate college of Princeton, with some reflections on
 the humanizing of learning. [1911.]
 Reprinted with additions from the "Century magazine," v.81, Feb. 1911.

Purdue University.

r 378.7 P98

Register of the officers and alumni, 1875-1915, corrected to Jan. 1, 1916. 1916. (Bulletin, v.16, no.5.)

Swarthmore College.

r 378.7 S97

Register of Swarthmore College; being a biographical dictionary of the board of managers, the former members of the faculty, the graduates and the non-graduates of Swarthmore College, 1862-1914. 1914. (Bulletin, v.12, no.1.)

American Association of University Professors.

r 378.7 U29

Report of the Committee of inquiry on conditions at the University of Utah, 1915. [1915.]

Wesleyan University, Middletown, Conn.

r 378.7 W55

Addresses of alumni and former students, Sept. 1915. 1915. (Bulletin, v.9, no.2.)

Western Reserve University.

r 378.7 W567

Catalogue of officers, graduates and students of Western Reserve college and of Adelbert college, 1826-1916. 1916.

Western University of Pennsylvania.

r 378.7 P67

Annual catalog, 1879/80, 1881/82, 1883/84-1895/96, 1897/98-1900/01. 1880-[1901].

In July 1908 the name of this university was changed from Western University of Pennsylvania to Pittsburgh University.

Title varies.

For later volumes see preceding catalogue, v.6, under Pittsburgh University.

Western University of Pennsylvania.

r 378.7 W56pr

Proceedings and addresses at the re-opening of the Western University of Pennsylvania, Pittsburgh, Friday evening, Dec. 19, 1856, with appendix containing act of incorporation, list of students, &c. 1857. Haven. Pittsburgh.

r 378.7 P3992

Pennsylvania Western [monthly], Feb.-July 1882. v.1. [1882.] Pittsburgh.

Published by the literary societies of the Western University of Pennsylvania.

[Phillips, Francis Clifford.]

r 378.7 W56p

The old Western University at the corner of Diamond and Ross streets, Pittsburgh. [1914.]

Williams College.

r 378.7 W742c

Catalogue, 1895/96, 1897/98, 1901/02, 1903/04-1904/05, 1907/08-date. 1895-date.

Lowe, John Adams, comp.

qr 016.3787 L95

Williamsiana; a bibliography of pamphlets & books relating to the history of Williams College, 1793-1911. 1911. Williams College.

Wisconsin—Public affairs, State board of.

qr 378.7 W81w

Report upon the survey of the University of Wisconsin; findings of the State board of public affairs and its report to the legislature. [1914.]

Appendices: W. H. Allen's report to the board.—E. C. Branson's report to the board.

Yale University—Class of 1861.

r 378.7 Y13f

Fiftieth anniversary of the class of 1861, Yale College, with biographical sketches; prepared by the secretary [W. D. Sheldon]. 1912. Allen.

379 Public education

Cubberley, Ellwood Patterson, & Elliott, E. C.

379 C91

State and county school administration. v.2. 1915. Macmillan. (Text-book series.)

v.2. Source book.

Cubberley, Ellwood Patterson.

379.1 C91p

Public school administration; a statement of the fundamental principles underlying the organization and administration of public education. 1916. Houghton. (Riverside textbooks in education.)

Contains many bibliographies.

Cubberley, Ellwood Patterson.

379.1 C91

State and county educational reorganization; the revised constitution and school code of the state of Osceola. 1914. Macmillan.

Osceola is an imaginary state in the Mississippi valley which has placed education under state supervision in its constitution and has prepared a form of school organization to meet the needs of the community. In presenting this model constitution and school code, the author clothes in concrete form his own ideas on state control of education.

Elliott, Edward Charles.

379.1 E52

City school supervision; a constructive study applied to New York city. 1914. World Book Co. (School efficiency series.)

"Two of the writer's important recommendations are, (1) that a division or department of investigation and appraisal be established as an integral part of school control; and (2) that steps be taken to establish a supervisory council consisting of supervising officers and members of the teaching staff." *Book review digest*, 1914.

Lauder, William, b. 1849.

r 379.1 L36

Uniform taxation for school purposes, 1914. 1914. (Pennsylvania—Education, State board of.)

Clark, Earle.

379.11 C51

Financing the public schools. 1915. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Swift, Fletcher Harper.

379.11 S97

History of public permanent common school funds in the United States, 1795-1905. 1911. Holt.

"Bibliography," p.457-468.

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School laws

Miles, Herbert Edwin. r 379.14 M68

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Pittsburgh school laws; with the rules and regulations adopted by the Central board, standing committees, etc. [1869-1879]. 1869-79.

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r 379.17 A16

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No more published.

Brown, John Franklin. 379.17 B79

The American high school. 1912. Macmillan.

"References" at the end of each chapter.

Discusses the history and function of the high school, its program of studies, organization and management, equipment, teachers and pupils, social life, relation to the community and future development.

Eliot, Charles William. r 379.17 E47

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Hinchman, Walter Swain. 379.17 H56

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Illinois University—High school visitor. r 379.17 I226

High school manual; standards and general recommendations for accrediting of high schools. 1915. (Illinois University. Bulletin, v.12, no.43.)

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1 379.17 I22

Bulletin [March 1909]–Jan. 1916. no.1–3, 5–15. [1909]–16.

Issued irregularly.

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Johnston, Charles Hughes, ed.

379.17 J36

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"Bibliography," p.471–531.

Undertakes "to treat from every angle possible the best approaches, theoretical and practical, to the genuine problems of high-school programmes of study and curriculums, and of all the special courses of study which a high school may hope to administer and teach." The chapters are written by various well-known school and college men, of whom the University of Michigan furnishes the largest number.

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379.17 J36m

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Lewis, William Dodge.

379.17 L67

Democracy's high school. 1914. Houghton. (Riverside educational monographs.)

Author is (1915) principal of the William Penn high school, Philadelphia.

Discussion of the new policies which are designed to substitute a broad teaching efficiency for a narrow academic tradition and make a curriculum which shall enlist interest through its inclusion of social and civic problems.

Monroe, Paul, ed.

379.17 M83

Principles of secondary education, written by a number of specialists. 1915. Macmillan. (Text-book series in education.)

"References" at the end of many of the chapters.

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Stout, John Elbert.

379.17 S88

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379.173 B46

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- Colorado**—State normal school, Greeley. r 379.173 C72
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- Cubberley, Ellwood Patterson.** 379.173 C91
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- Gates, Frederick Taylor.** r 379.173 G23
 The country school of to-morrow. 1916. (General Education Board. Occasional papers, no.1.)
- Monahan, Arthur Coleman.** 379.173 M81
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The same. (In United States—Education bureau. Bulletin, 1914, no.30.) r 370 U25 1914, no.30
- Pittenger, Benjamin Floyd.** r 379.173 P67
 Rural teachers' training departments in Minnesota high schools. 1914. (Minnesota University. Current problems, no.2.)
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- Pittsburgh**—Public education board. r 379.19 P67
 Evening schools and extension work, 1913/14-1914/15, a circular of information. [1913-14.]
 Circular for 1914/15 contains report for 1913/14.
- Pittsburgh**—Public education board. r 379.19 P67e
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Europe

- Brereton, Cloudesley Shovell Henry.** 379.4 B73
 Studies in foreign education, with special reference to English problems. [1913.] Houghton.
Contents: A comparison between French and English secondary schools.—Thirty years of university education in France.—French rural education.—The true inwardness of moral instruction in France.—Physical education in France.—The infant schools of

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 France.—The Paris international guild.—A look round German schools.—The new way of teaching classics in Germany.—Toward France or Germany? English education at the crossways.

"Bibliography," p.167-172.

"Reprint of reports and articles...As the work of a man keenly conscious that the mission of education is to make men and not scholars, who by the variety of his experiences has rubbed off the insular contentment which is the note of our higher forms of education, Mr. Brereton's book appeals first to teachers and administrators, then to parents at large." *Saturday review*, 1913.

Kerschensteiner, Georg. 379-43 K21

Education for citizenship; prize essay, tr. by A. J. Pressland and published under the auspices of the Commercial Club of Chicago. 1911. Rand.

The author urges that education shall be prolonged beyond the years of elementary schooling and that the definite aim of this continuation shall be the training of youth for citizenship. Among the foremost of the agencies to be employed are trade schools. The sort of training recommended is actually being carried out under the author's direction in Munich.

Anderson, David Allen. 379-481 A54

School system of Norway. 1913. Badger.

"Bibliography," p.225-228.

"Through personal observation, conversation with competent men and study of the most important literature, the author has succeeded in getting a clear and exact view of the Norwegian school methods and characteristic forms of work in their historical development and present condition. His reflections and judgments testify to pedagogical insight and independence of views." *Reviewer's preface*.

Japan

Japan—Education department. r 379-52 J18

Annual report (36th-41st) of the minister of state for education, 1908/09-1913/14. 1911-16.

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Mabie, Hamilton Wright. qr 379-52 M11

Educational exchange with Japan; a report to the trustees of the endowment on observations made in Japan in 1912-1913. 1914. (Carnegie Endowment for International Peace. Publication no.3.)

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Report of an investigation made under the direction of the Bureau of Municipal Research of New York City, of the various agencies, public and private, which are supplementing the work of public schools in the United States.

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Hollister, Horace Adelbert. 379-7 H72

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"References for further reading," p.372-377.

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The family, the state and the school. 1912. The Text Book Pub. Co.

Paper read at the annual meeting of the Catholic Educational Association at Pittsburgh, June 24, 1912.

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Small, Walter Herbert. 379.74 S63

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"Bibliography," p.397-401.

Quotes freely from old records and gives extracts from the early statutes applying to education. Contains chapters on "The grammar school," "The dame school," "The early education of girls," "Private schools," "Land grants and donations."

"While written primarily for teachers and students of educational methods, it must prove of interest to all lovers of history, filled as it is with quaintly curious historical detail, and with anecdotes of famous schools and masters." *Boston evening transcript*, 1915.

Maine—State superintendent of public schools. r 379.741 M26

Report for the school year ending June 30, 1912-15. 1912-16.

For earlier reports see preceding catalogue, v.6.

Vermont—Education, State superintendent of. r 379.743 V27

School report (42d), 1910/12. 1912.

For earlier reports see preceding catalogue, v.6.

New York

Hanus, Paul Henry. 379.747 H24

School efficiency; a constructive study applied to New York city; a summary and interpretation of the report on the educational aspects of the school inquiry. 1913. World Book Co. (School efficiency series.)

Report of investigations made by the Committee on school inquiry of the Board of estimate and apportionment, New York city, 1911-12. Discusses vocational schools, general supervision, and problems of administration of elementary and high schools.

McMurry, Frank Morton. 379.747 M21

Elementary school standards; instruction, course of study, supervision; applied to New York city schools. 1913. World Book Co. (School efficiency series.)

Maxwell, William Henry, b. 1852. 379.747 M52

A quarter century of public school development, with an introduction by N. M. Butler; collected by the Committee on the celebration of the 25th anniversary of Dr Maxwell's superintendency. 1912. Amer. Book Co.

Reports and addresses made by Dr Maxwell during his 25 years' superintendency. Every important educational subject under discussion during the last quarter of a century is represented and the book is virtually a résumé of educational progress during that time.

Moore, Ernest Carroll.

379.747 M87

How New York city administers its schools; a constructive study. 1913. World Book Co. (School efficiency series.)

"Professor Moore's report is an exceptionally valuable document. On the basis of a comprehensive, clear, and convincing exposition of existing conditions, it points out the way to progressive improvement in the administration of the public school system of the City of New York." *Paul H. Hanus, in preface.*

New York (state)—Education department.

r 379.747 N2612e

Examination of the public school system of the city of Buffalo. 1916.

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Souvenir of the dedication of the New York state education building, Albany, Oct. 15, 16, 17, 1912. [1912.]

"Noteworthy manuscripts and relics in the custody of the Education department," p.69-71; "Important dates in the history of education in New York," p.72-74; "Statistical information," p.75-76.

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By-laws of the Board of education of the city of New York and by-laws of the Board of trustees of the Normal College, also provisions and other statutes relating to the Department of education. 1911.

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For later reports see preceding catalogue, v.4.

**New York (city)—Education department—Division
of reference and research.**

r 379.747 N2618

Semi-annual report, July 1, 1915. [1915.] (Publication no.12.)

New York (city)—School inquiry committee, 1911-13.

qr 379.747 N2617

Report. 3v. 1913.

Investigation of the educational aspects of the school inquiry,* made under the direction of P. H. Hanus. Consists of the report as a whole and reports of specialists on elementary and vocational (industrial) education, high schools and the New York system of general supervision.

Pennsylvania. Pittsburgh

Bixler, Edward Clinton.

r 379.23 B49

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**National Education Association—Department of
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r 379.748 N15

The public schools of Philadelphia. 1913. (Philadelphia, Public Education Association. Study no.41.)

Pennsylvania—Public instruction department. r 379.748 P399

List of high schools in the several counties of the state of Pennsylvania as reported by the superintendents of schools and classified by the Department of public instruction, for the school year 1911/12-1912/13; prepared by N. C. Schaeffer. 1912-13.

Pennsylvania—Public instruction department. r 379.748 P399p

Programs of studies for borough and township high schools in Pennsylvania. 1913.

Pennsylvania—Public instruction department. r 379.748 P39

Report (22d-26th) of the superintendent of public instruction, for the year ending June 4, 1855-59. [1856?]-59.

The reports for 1858/59, will be found in Executive documents, 1858/59, (r 328.74 P39e).

23d report for 1855/56 is in German and title reads "Bericht des obernachrichters der volks-schulen von Pennsylvania."

For volumes for 1859/60-date see preceding catalogue, v.1.

Pennsylvania State Educational Association. r 379.748 P3992

Report on rural schools. 1914.

Philadelphia, Public Education Association. 379.748 P49

A generation of progress in our public schools, 1881-1912. 1914. (Study no.42.)

Pittsburgh—Education, Central board of. r 379.748 P67

Annual report (1st-42d) of the superintendent of public schools, for the school year ending Aug. 31, 1869-1910. v.1-42. 1869-[1910].

The 27th annual report was not published, but the statistics for that year will be found in the 28th annual report, p.65.

Title for the 12th-28th reports is "Annual report of the condition of the public schools;" later reports are called "Reports concerning the public schools."

Organization and name of board changed in 1911. For later reports see Pittsburgh—Public education board.

Pittsburgh—Education, Central board of. r 379.748 P67c

Catalogue of Pittsburgh High School, 1911/12. [Pittsburgh.]

Pittsburgh—Hiland sub-school district. r 379.748 P6744

Program of exercises in connection with the opening of the new Peabody school (addition to Margaretta building), Beatty and Black streets, September seventh, 1911. [1911. Pittsburgh.]

Pittsburgh—Public education board. r 379.748 P67an

Announcement of professional reading and study for the Pittsburgh public schools as required by the Board of public education, May 1, 1916. [1916. Pittsburgh.]

Cover title reads "Pittsburgh teachers professional study bulletin."

Pittsburgh—Public education board. r 379.748 P67a

Annual bulletin (6th), Pittsburgh evening high schools, 1912/13. [1912]. Pittsburgh.

Name of board was changed from Central board of education to Board of public education in 1911.

For volume for 1908/09 see preceding catalogue, v.6.

Pittsburgh—Public education board. r 379.748 P6745an

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- Pittsburgh**—Public education board. r 379.748 P6745
 Handbook, 1912/13-1916. [Pittsburgh.]
 Earlier issues of this handbook will be found under Pittsburgh—Education, Central board of.
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- Pittsburgh**—Public education board. r 379.748 P6745r
 Rules and regulations of the Board of public education. [1912? Pittsburgh.]
- Spencer, Pauline Wolcott.** r 379.748 S74
 Contribution of Connecticut to the common school system of Pennsylvania. 1915. New Era Printing Co.
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- Ayres, Leonard Porter.** 379.771 Ag8
 School organization and administration. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)
 "The purpose of the present study is to scrutinize community action, legal provisions, board organization, and school administration as they are found operating in Cleveland." *Chapter 1.*
- Cleveland**—Education board. r 379.771 C582c
 Cleveland public schools; annual report (75th-76th), of the superintendent of schools, 1910/11-1911/12.
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- Ohio**—State commissioner of common schools. r 379.771 O18a
 Annual report (58th-59th, 61st-62d), 1910/11-1911/12, 1913/14-1914/15. 1912-16.
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- Bourne, Randolph Silliman.** 379.772 B65
 The Gary schools, with an introduction by William Wirt, superintendent of schools, Gary, Indiana. 1916. Houghton.
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- Gary, Ind.**—Education board. r 016.379772 G19
 Bibliography; publications concerning the Gary public schools, June 1, 1916. [1916.]
- Indiana**—Public instruction department. r 379.772 I24b
 Biennial report (26th-27th) of the state superintendent of public instruction for the school years 1910/12-1912/14. 1913-15.
 For reports for 1904/06-1908/10 see preceding catalogue, v.6, under Indiana—Education, State board of.
- Leonard, Robert Josselyn.** r 379.772 L62
 Some facts concerning the people, industries and schools of Hammond [Indiana], and a suggested program for elementary, industrial, prevocational and vocational education. 1915.
 Printed by order of Hammond, Ind. Board of Education.

Other states

General Education Board. r 379.752 G29

Public education in Maryland; a report to the Maryland educational survey commission by Abraham Flexner and F. P. Bachman. 1916.

The same.....r 379.752 G29

New Orleans—Public schools, Superintendent of. r 379.763 N261

Annual report of the parish of Orleans, 1912/13, 1914/15, 1915/16, pt.1, 3. [1913-16.]

Iowa—Education, State board of. r 379.777 I259

Biennial report (3d), for the biennial period ending June 30, 1914. 1914.

Clement, John Addison. r 379.781 C56

Standardization of the schools of Kansas. 1912. University of Chicago Press.

Thesis for Ph. D., University of Chicago.

Kansas—Educational measurements and standards bureau. r 379.781 K128

Report of a survey of the public schools of Leavenworth, Kansas. 1915. (Studies, no.1.)

Survey was conducted under the auspices of the Kansas state normal school, Emporia. With this is bound "The Kansas silent reading test," by F. J. Kelly.

Kansas—Public instruction, State superintendent of. r 379.781 K12

Biennial report (17th-18th), 1908/10-1910/12. 1910-12.

For volumes for 1902/04-1906/08 see preceding catalogue, v.6.

Omaha, Neb.—Education board. r 379.782 O24

Annual report, 1912. [1912.]

Montana—Public instruction department. r 379.786 M849

Biennial report (12th-13th) [1910/12-1912/14]. 1912-[14].

For earlier reports see preceding catalogue, v.4, 6.

Cubberley, Ellwood Patterson, and others. 379.795 C91

Portland survey; a textbook on city school administration based on a concrete study. 1915. World Book Co. (School efficiency series.)

Deals with the problems of organization and administration, instructional needs, buildings and health, attendance, and records and costs. Includes chapters on "The social and economic position of Portland," "Outline of an educational program adapted to local educational needs" and "The present offering of the school district in vocational studies, with suggestions for improvement."

Oregon—Public instruction, Superintendent of. r 379.795 O28

Biennial report (20th), 1910/12. 1913.

For earlier reports see preceding catalogue, v.6.

Alaska. Philippine islands

United States—Education bureau. r 379.798 U25r

Report on education of the natives of Alaska and the reindeer service, 1909/10-1910/11. 1910-12.

The same, 1911/12-1913/14. 1913-15. (In its Bulletin, 1913, no.36, 1914, no.31, 1915, no.48.).....r 370 U25

Title reads "Report on the work of the Bureau of education for the natives of Alaska."

For earlier reports see preceding catalogue, v.1, under Jackson, Sheldon.

United States—Education bureau. r 379.798 U25

Rules and regulations regarding the Alaska school service for the natives of Alaska, adopted May 20, 1911. 1911.

Philippine islands—Education bureau. r 379.914 P49

Annual report (11th–13th, 15th–16th), 1910/11–1912/13, 1914–15. 1911–16.

With v. 11–13 is bound its "Statement of organization, aims and conditions of service in the Bureau of education."

380 Commerce. Communication

Bourne, Henry Richard Fox. 380 B65

English merchants; memoirs in illustration of the progress of British commerce. 2v. 1866. Bentley.

Sketches of famous merchants and families of merchants. Combined with chapters on the commercial development of various periods, they form a fairly continuous history of English trade from early times to 1865.

Chamberlain, James Franklin. j 380 C35

How we travel; a geographical reader. 1914. Macmillan. (Home and world series.)

Describes methods of travel in different lands—a journey in a jinrikisha, an elephant ride, traveling on the ice, the "ship of the desert," horseless carriages, bicycles, steamships, airships. Also tells how mail is delivered, and about the telegraph, telephone and cable. Suitable for fourth and fifth grades.

Cunningham, William, b. 1849. 380 C92a

Growth of English industry and commerce. 2v. 1912. Cambridge University Press.

"Bibliographical index," p. 943–998.

Day, Clive. 380 D33a

History of commerce. 1914. Longmans.

"Authorities," p. 592–631.

By the professor of economic history in Yale University (1915).

Touches briefly on the commerce of the ancients and more fully on that of mediæval Europe, but the larger part of the book treats of the 19th century, with especial emphasis on the commerce of the United States.

r 380 H38

Heaton's annual; the commercial handbook of Canada and boards of trade register, 1914; ed. by Ernest Heaton and J. B. Robinson. v. 10. 1914.

Johnson, Emory Richard, and others. qr 380 J36

History of domestic and foreign commerce of the United States. 2v. in 1. 1915. (Carnegie Institution of Washington. Publication no. 215a.)

Contents: American commerce to 1789, by E. R. Johnson.—Internal commerce of the United States [and] The coastwise trade, by T. W. Van Metre.—The foreign trade of the United States since 1789, by G. G. Huebner.—The fisheries, by T. W. Van Metre.—Government aid and commercial policy, by D. S. Hanchett.

"Bibliography," v. 2, p. 352–386.

Poor's manual of public utilities; street railway, gas, electric, water, power, telephone and telegraph companies, 1913-16. 1st-4th annual number. 1913-16. Poor's Railroad Manual Co. r 380 P79

Rocheleau, William Francis. j 380 R56a
Great American industries; transportation. 1914. Flanagan.

Contents: Primitive methods of travel and transportation.—Roads and carriages.—Waterways.—Inland waterways.—Railways.—Electric railways.—Mountain railways.—Express.—Carrying the mails.—Navigating the air.

The same. 1910.....j 380 R56

Whelpley, James Davenport. 380 W61

Trade of the world. 1913. Century.

Contents: Trade strategy.—The commercial strength of Great Britain.—Germany's foreign trade.—The trade of France.—Belgium, the balance wheel of trade.—Austria-Hungary, the European enigma.—Italy's economic outlook.—The trade of northern Africa.—Japan's commercial crisis.—The trade of China.—The trade of Russia.—Progressive Argentina.—If Canada were to annex the United States.—The foreign trade of the United States.

"Comprehensive and stimulating account of the forces and facts that make up the activities of the great trading nations." *Review of reviews*, 1914.

381 Domestic trade

Albany (N. Y.) Chamber of Commerce. r 381 A32

Report of the secretary for the year ending Dec. 31, 1915. 1915.

Title on cover reads "Year book, 1915."

For volumes for 1908-11 see preceding catalogue, v.6.

Chicago—Municipal markets commission. r 381 C432

Preliminary report, April 27, 1914. [1914.]

qr 381 G82

Greater New York; bulletin of the Merchants' Association of New York [weekly], 1913-date. v.2-date. 1913-date.

Miller, Cyrus C. r 381 M69

Municipal market policy. 1912. City Club of New York.

With this is bound "A terminal market system, New York's most urgent need," by Mrs Madeleine Black.

National Board of Trade. r 381 N15

Proceedings of the annual meeting (10th, 16th-23d, 25th-35th, 37th-41st), 1879, 1886-93, 1895-1905, 1907-11. 1880-1911.

No meetings were held in 1878, 1881, 1891.

No volume issued after 1911.

The object of the association is to promote the efficiency of the various commercial and manufacturing organizations of the United States. Its proceedings relate to the interstate commerce law, postal affairs, internal waterways, the American merchant marine, etc.

For volume for 1906 see preceding catalogue, v.4.

Philadelphia, Board of Trade. r 381 P49

Annual report (79th-83d), 1911/12-1915/16. 1912-16.

For earlier reports see preceding catalogue, v.1.

Pittsburgh, Chamber of Commerce. r 381 P67c

Chamber of Commerce of Pittsburgh; 40th anniversary of incorporation, corner stone laying ceremony, Chamber of Commerce building, July 8, 1916. [1916. Pittsburgh.]

- Pittsburgh, Chamber of Commerce.** r 381 P67w2
 [What the Chamber of Commerce of Pittsburgh has done.] 1916.
 [Pittsburgh.]

Contains also "What the Chamber of Commerce of Pittsburgh contemplates promoting."

Summary of its achievements in the way of civic betterment.

- Pittsburgh Industrial Development Commission.** r 381 P674
 Annual report (1st-3d), 1911/12-1913/14. Pittsburgh.

- Rochester, N. Y. Chamber of Commerce.** r 381 R57
 Some activities of the Rochester Chamber of Commerce during 1914-15 as set forth in the reports of the committee chairmen. [1914-15.]

- Sturges, Kenneth Montague.** r 381 S93
 American chambers of commerce. 1915. Moffat. (Williams College. David A. Wells prize essays, no.4.)

Contents: Origins.—Early history in the United States—A century of development.—The federation movement.—Modern structural principles.—The training and work of the commercial secretary.—The Cleveland Chamber of Commerce.—City government reform.—Co-operation with municipal authorities.—Civic improvement.—Competition between cities.—Appendix.

"Bibliography," p.265-268.

- Sullivan, James William.** 381 S94

Markets for the people; the consumer's part. 1913. Macmillan.

Convincing demonstration of the advantages of municipal markets. Based on systematic investigation of markets in America and Europe, especially of the great systems of London, Paris and Berlin, which are fully described. Advocates, as an escape from the high prices of the middleman, the establishment of various kinds of public markets and the formation of coöperative associations on English models. The recommendations are applied particularly to New York city.

- United States—Federal trade commission.** r 381 U253c
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Supplements are issued in two volumes to the year, v.1 containing reports on Europe, v.2 including all other countries.

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383 Postal service

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Hemmeon, Joseph Clarence. **383 H13**

History of the British post office; published from the income of the William H. Baldwin, jr., 1885, fund. 1912. Harvard University. (Harvard economic studies, v.7.)

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"Well documented account of the development of the postoffice with descriptions of its functions and activities, including the government telegraph and telephone systems. A useful book for reference and for comparison of British and American solutions of postal problems. Good material on postal savings banks and insurance, but very little on the parcels post." *A. L. A. booklist, 1912.*

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"List of references on the postal money order service," prepared under the direction of H. H. B. Meyer, p.125-156.

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United States—Post-office department.**qr 383 U25par**

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United States—Post-office department.**r 383 U25pa**

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(House.)

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Argument against reducing the compensation paid to the railroads of the United States for carrying the mails.

Newcomb, Harry Turner. **r 383 N26**

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United States—Post-office department. **qr 383 U251**

Letter from the postmaster general submitting a report giving the results of the inquiry as to the operation, receipts and expenditures of railroad companies transporting the mails, and recommending legislation on the subject. 1911. (62d cong. 1st sess. House. Doc. no.105, v.7.)

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United States—Post-office department. **r 383 U25pr**

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r 383 U2535

United States—Postage on 2d class mail matter and compensation for the transportation of mail, Joint committee on.

Railway mail pay; preliminary report and hearings, Jan. 24, 1913 to April 3, 1914. 1914.

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qr 383.5 P4942

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384 Telephone. Telegraph

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qr 384 M

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385 Railroads

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no.34. A comparative study of railway wages and the cost of living in the United States, the United Kingdom, and the principal countries of continental Europe.

no.39. Comparison of capital values—agriculture, manufactures, and the railways.

no.45. Railways and agriculture, 1900-1910.

no.53. The arguments for and against train crew legislation.

no.62. List of publications pertaining to government ownership.

no.66. Statistics of railways, 1900-1912, United States.

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no.94. Railway stockholders, June 30, 1915.

Bureau of Railway Economics, Washington, D. C. r 385 B89s

Summary (1st-date) of railway returns for the fiscal year ending June 30, 1915-date. 1916-date.

Chandler, William Henry. 385 C36

The express service and rates. 1914. Lasalle Extension University.

Part of a home-study course in interstate commerce and railway traffic. Covers the early history of the express industry, its organization, earnings and relations with railroads. Describes the new rate system prescribed by the Interstate Commerce Commission. Contains chapters on the special services of the companies—their money, financial, foreign, and order and commission departments—and brief chapters on relations of the express business to electric roads and parcel post.

Chicago—Harbor and subway commission. r 385 C432
[Passenger subways for Chicago. 1912. Barnard.]

These pamphlets include the joint report of the Harbor and subway commission and the sub-committee of the council committee on local transportation.

Cleveland, Frederick Albert, & Powell, F. W. 385 C58r
Railroad finance. 1912. Appleton.

"Bibliography," p.353-429.

"Describes the methods of financial management employed by railway companies, their systems of accounts and statistics, the intricacies of capitalization, reorganization, and consolidation...Includes also a careful study of the important questions connected with fictitious capitalization." *Outlook*, 1912.

Cleveland and Pittsburgh Railroad Co. r 385 C58

Report of the survey and estimates and charter of the Cleveland and Pittsburgh Railroad, by S. Dodge. 1846. Sherman.

The charter of the company is appended to the reports of the engineer.

Corthell, Elmer Lawrence. r 385 C82

The Atlantic and Pacific ship-railway across the Isthmus of Tehuantepec in Mexico, considered commercially, politically and constructively. 1886. [Bowne.]

Corthell, Elmer Lawrence. r 385 C82t

The Tehuantepec ship railway; an address delivered before the Franklin Institute, Dec. 28, 1884. Merrihew Print.

Reprinted from the Journal of the Franklin Institute, June 1885.

Curran, John Philpot. r 385 C93

Freight rates; studies in rate construction. 1913. Railway Text Book Pub. Co.

Dunn, Samuel Orace. 385 D92

American transportation question. 1912. Appleton.

The editor of the "Railway age gazette," notwithstanding his professional affiliations, has given an eminently fair treatment of the questions at issue. Two introductory chapters are devoted to principles of rate-making. Successive chapters deal with discrimination, valuation, efficiency, relation of railways to waterways, and government regulation. Upon all these questions the author throws light, and adds to the clearness and interest of his exposition by abundance of apt illustration drawn from actual railway controversies. *Condensed from Nation*, 1912.

Elliott, Howard. r 385 E52

[Addresses, 1910-1915. 2v.]

v.1. Co-operation between the railway owner, the railway employe and the railway user.—Efficient railway management.—A mile of railroad and a country store.—Business efficiency in farming and railroading.—Minnesota; the railways and advertising.—The individual, the corporation and the government.—The work of the farmer and of the railroad in Minnesota.—Relation between the farmer and the railroad.

v.2. Address to the Business Men's Association of Windsor, Conn.—Address to the Young Men's Christian Association, Chamber of Commerce and Twentieth Century Club of Middleton, Conn.—Address to the American Association of Traveling Passenger Agents.—Address to the Railway Development Association.

Elliott, Howard. 385 E52

The truth about the railroads. 1913. Houghton.

Contents: Co-operation between the railway-owner, the railway employer and the railway-user.—The individual, the corporation and the government.—The conservation of railway service.—Rate-making and the government.—The relation between the farmer and the railroad.—Agriculture, banking and the carrier.—Transportation in New England.—Public opinion; its effect on business.

Collection of addresses, constituting an interesting and comprehensive discussion of the present situation and prospects of railways in the United States. Mr Elliott states

Elliott, Howard—*continued*. 385 E52
the railway case strongly and even aggressively, yet so tactfully as to give no offense to those hostile to the present railway management. *Condensed from Railway age gazette, 1913.*

Emerson, Harrington. 385 E58

Col. J. M. Schoonmaker and the Pittsburgh & Lake Erie Railroad; a study of personality and ideals. 1913. Engineering Magazine Co.

Explains the principles of efficiency and service to the public which govern the road and describes with enthusiasm the personality of Col. Schoonmaker, the vice-president, who is largely responsible for its success.

England—Railway and canal commission. qr 385 E64

Annual report (22d-27th), with appendix, 1910-15. 1911-16.

For report for 1900-09 see preceding catalogue, v.6.

Indiana—Railroad commission. r 385 I242

Annual report (6th-7th), 1910/11-1911/12. 1912-13.

For earlier reports see preceding catalogue, v.6.

Iowa—Railroad commissioners, Board of. r 385 I25

Annual report (34th-37th), 1910/11-1913/14. 1912-[15].

For earlier reports see preceding catalogue, v.6.

Johnson, Emory Richard. 385 J36a

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Contents: The American railway system.—The railway service.—The railways and the public.—The railways and the state.

"References for further reading" at the end of each chapter.

Johnson, Emory Richard, & Van Metre, T. W. 385 J36p

Principles of railroad transportation. 1916. Appleton. (Appleton's railway series.)

Contents: The American railroad system.—The railroad service.—The railroads and the public.—The railroads and the state.

"References" at the end of many of the chapters.

Kennan, George. 385 K18

Misrepresentation in railroad affairs. 1916. Country Life Press.

Contents: Misrepresentation in railroad affairs.—The psychology of Mr Roosevelt. Appeared in part in "North American review," May-June 1916, v.203.

Kent, Otis Beall, comp. r 385 K19a

Digest of decisions (including dicta) under the Federal safety appliance and hours of service acts; act March 2, 1893, 27 Stat. L. 531, as amended April 1, 1896, 29 Stat. L. 85, act March 2, 1903, 32 Stat. L. 943, act April 14, 1910, 36 Stat. L. 298, act March 4, 1907, 34 Stat. L. 1415, with references to or excerpts from additional cases in which the acts have been construed, orders and administrative rulings of the Interstate commerce commission. 1915. U. S. Government.

Prepared by direction of the United States interstate commerce commission.

Knoop, Douglas. 385 K34

Outlines of railway economics. 1913. Macmillan.

"Although written with English conditions almost exclusively in mind, it is in no sense insular in its appeal. In a well-arranged discussion it develops from the simplest principles of demand and supply the more complicated relationships that apply to railway rates." *Nation, 1914.*

McPherson, Logan Grant.

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Lectures delivered at the Johns Hopkins University in May 1914. 1914. Privately printed.

Contents: The economic transition. — Railway competition and combination. — Government ownership of railways. — The valuation of railways. — The service of accounts and statistics.

Massachusetts—Public service commission.

r 385 M4552

Annual report (1st-3d), 1913-15. 1914-16.

This commission supersedes the Board of railroad commissioners. For earlier reports on railroads see Massachusetts—Railroad commissioners. Board of. Annual report (r 385 M455).

Moody, John.

qr 385 M87

Moody's analysis of railroad investments, containing in detailed form an expert comparative analysis of each of the railroad systems of the United States, with careful deductions, enabling the banker and investor to ascertain the true values of securities by a method based on scientific principles, 1912 (including 1911). 3d annual number. 1912. Analyses Pub. Co.

Mundy, Floyd Woodruff, comp.

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Earning power of railroads, 1914; mileage, capitalization, bonded indebtedness, earnings, operating expenses, cost of maintenance, fixed charges, comparative statistics, investments, dividends, guarantees, etc. 1914.

For earlier volumes see preceding catalogue, v.6.

Ohio—Public utilities commission.

r 385 O1832

Report, 1912-14. 1913-15.

Report for 1912 is that of the Public service commission, which was created by act of 1911 to take the place of the Railroad commission, and abolished by act of 1913, to be succeeded by the Public utilities commission.

For earlier reports on railroads in Ohio see Ohio—Railroad commission. Report (r 385 O18).

Parsons, Frank.

385 P26r

The railways, the trusts and the people [written] with the assistance of Ralph Albertson; ed. and pub. by C. F. Taylor. v.1. 1906. Taylor. (Equity series.)

v.1. Relations of the railways to the public.

Pennsylvania—State railroad commission.

r 385 P3994

Report for the year ending Dec. 31st, 1910-12.

Superseded in 1913 by the Public service commission and after 1912 reports on railroads will be found incorporated in its Annual report (r 352.8 P39).

For reports for 1908-09 see preceding catalogue, v.6.

Price, Waterhouse & Company, New York.

r 385 P94

Report of Price, Waterhouse & Company upon the cost to the Pennsylvania Railroad Company and the Philadelphia & Reading Railway Company of transporting anthracite coal from the respective mining sections in the eastern part of Pennsylvania to Philadelphia; submitted Jan. 31, 1914, upon complaint filed with the Pennsylvania state railroad commission, docket no.950. [1914.]

[**Railroads**; a collection of pamphlets. 1907-14.] r 385 R1572

Contents: The American house of industry, by L. E. Johnson.—The country and the railroads, by W. C. Brown.—A fundamental defect in the act to regulate commerce, by C. A. Prouty.—Should railroad rates be raised? an affirmative answer, address of W. A. Hayes.

Railway age gazette. r 385 R1573

Sayings and writings about the railways, by those who have managed them and those who have studied their problems. 1913.

Raper, Charles Lee. 385 R19

Railway transportation; a history of its economics and of its relation to the state; based, with the author's permission, upon President Hadley's "Railroad transportation; its history and its laws." 1912. Putnam.

"References" at the end of many of the chapters.

The first chapter is devoted to a brief history and general discussion of modern transportation. Succeeding chapters take up in turn railway transportation in Great Britain, France, Italy, Germany and the United States and provide a large amount of up-to-date and valuable information regarding the organization, rates, service, financial returns, etc. of the railways of these countries. The last chapter is a study of state operation of railways.

Ripley, William Zebina. 385 R48f

Railroads; finance & organization. 1915. Longmans.

Complement of his "Railroads; rates and regulations."

Covers construction, capitalization, securities and their regulation, speculation and stock watering, receivership, pooling, and inter-corporate relations.

"Together they present a comprehensive treatment of the railway question in the United States—its history, the theoretical principles applicable to its price-making functions, the legislation affecting railways, particularly the Interstate Commerce Act, and the diverse problems of finance and corporate relationship." *Nation*, 1915.

Ripley, William Zebina. 385 R48r

Railroads; rates and regulations. 1912. Longmans.

Covers rate-making in theory and practice, personal and local discrimination, problems of routing, freight classification, rate wars, and Federal legislation concerning railroads from 1887.

Saby, Rasmus S. r 385 S11

Railroad legislation in Minnesota, 1849 to 1875. 1912. Volkszeitung Co.

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Thesis for Ph. D., University of Pennsylvania; published by the Minnesota Historical Society.

Sakolski, Aaron Morton. 385 S15

American railroad economics; a text-book for investors and students. 1913. Macmillan.

"Critical examination of facts and figures derived from railroad reports and other publications with a view to assisting in the correct judgment of railroad activities and operating results." *Preface*.

Author is (1913) lecturer in the School of commerce, New York University.

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Freight classification; a study of underlying principles. 1912. Houghton. (Hart, Schaffner & Marx prize essays in economics.)

While freight rates have not as yet been reduced to an exact science, the author has treated the subject in a scientific way, showing how economic laws apply to the classification of freight.

Strong, Sturgis & Co. New York.

r 385 S92

Seventy years of America's greatest railroad, the Pennsylvania, 1846-1916. 1916.

Tanner, Henry Schenck.

r 385 T18

Description of the canals and rail roads of the United States, comprehending notices of all the works of internal improvement throughout the several states. 1840. Tanner.

Thompson, Slason, comp.

r 385 T38

Railway library, 1911-15; a collection of addresses and papers on railway subjects, mostly delivered or published during the year, also statistics. 1912-16.

For volumes for 1909-10 see preceding catalogue, v.6.

United States—Alaska railroad commission.

r 385 U25392

Railway routes in Alaska; message from the president of the United States transmitting report of Alaska railroad commission. 2v. 1913. (62d cong. 3d sess. House. Doc. no.1346, v.118-119.)

v.1. Text.

v.2. Maps.

"Publications relating to transportation and railway routes in Alaska," v.1, p.167-172.

United States—Interstate commerce commission.

r 385 U253a

Act to regulate commerce (as amended) also [acts supplementary thereto]; revised to Sept. 1, 1912. 1913.

United States—Interstate commerce commission.

qr 385 U253an

Annual report (1st-6th) on the statistics of express companies in the United States, for the year ending June 30, 1909-14. 1911-15.

United States—Interstate commerce commission.

qr 385 U253b

Bulletin of revenues and expenses of steam roads in the United States [monthly], July 1907-Aug. 1914. 1909-14.

Publication discontinued with number for Aug. 1914.

Later statistics of railroads will be found in "Revenues and expenses of steam roads" issued by the Bureau of Railway economics (qr 385 B89r).

United States—Interstate commerce commission.

r 385 U253d

Decisions, March 1912-date. 1912-date. (United States—Interstate commerce commission. Reports, v.23-date.)

———Table of cases and opinions, April 1887-June 1913.

———Table of cases and opinions, June 1913-July 1915.

For volumes for Nov. 1906-March 1912 see preceding catalogue, v.6.

United States—Interstate commerce commission.

r 385 U253e

Evidence taken by the Interstate commerce commission in the matter of proposed advances in freight rates by carriers, Aug. to Dec. 1910. 10v. in 8. 1911. (61st cong. 3d sess. Senate. Doc no.727, v.47-54.)

v.1-5. Hearings before commission.

v.6-7. Briefs of counsel, case no.3500.

v.8-9. Briefs of counsel, docket no.3400.

v.10. Reports of commission, appendix and index.

United States—Interstate commerce commission.

r 385 U253f

Five per cent. case; letters transmitting, in response to a Senate resolution of March 23, 1914, a copy of all evidence introduced and all

United States—Interstate commerce com.—*continued*. r 385 U253f
 exhibits received at hearings before the commission in docket number 5860, "Revenues of rail carriers in official classification territory" and investigation and suspension docket number 333 entitled "Rate increases in official classification territory." 8v. 1915. (63d cong. 2d sess. Senate. Doc. no.466, v.14.)

United States—Interstate commerce commission. r 385 U253n

New York, New Haven & Hartford Railroad Co.; evidence taken before the Interstate commerce commission relative to the financial transactions of the New York, New Haven & Hartford Railroad Company, together with the report of the commission thereon. 2v. 1914. (63d cong. 2d sess. Senate. Doc. no.543, v.19-20.)

v.1. Hearings, with index.

v.2. Exhibits, with index.

United States—Interstate commerce commission. qr 385 U253v
 Valuation order. no.1-20. 1914-15.

United States—Justice department. r 385 U2539

Cases brought in the Commerce court; letter from the attorney general, transmitting, in response to Senate resolution of June 10, 1912, information relative to the cases brought in the United States commerce court. 1912. (62d cong. 2d sess. Senate. Doc. no.789, v.30.)

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Annual report (4th, 9th), 1909/10, 1914/15. 1912-16.

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Government regulation and control

Barnes, Harry Cleveland. r 385 B25

Interstate transportation; a treatise on the Federal regulation of interstate transportation and common carriers, including jurisdiction of the Interstate commerce commission, revised to date, containing the Mann-Elkins bill of June 18, 1910. 2v. 1910. Bobbs.

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List of references to publications pertaining to the government ownership of railways. 1913.

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The case for railway nationalisation. Collins. (The nation's library.)

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- Dunn, Samuel Orace.** 385 D92g
 Government ownership of railways. 1913. Appleton.
The same. 1914.....r 385 D92
 "Characterized by moderation of language and sound common-sense, even though it is clear that [Mr Dunn] is a thoroughly convinced advocate of private ownership and operation...A piece of evidence against nationalization of railways—at all events in the United States." *Nation*, 1914.
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- Fink, Henry.** r 385 F49
 Federal regulation of railroad securities and valuation of railroad properties; letter to the Railroad securities commission in reply to their request for information and opinions. [1911. Stone Printing and Manufacturing Co.]
- Haines, Henry Stevens.** 385 H15p
 Problems in railway regulation. 1911. Macmillan.
 "The problems treated are eight in number—incorporation, finance, construction, operation, traffic, discrimination, rate-making, and labor. Whether the reader agrees with the writer's conclusions or not, he will be impressed by the calm handling of topics, by the total absence of bias, and by the modesty with which personal opinions are expressed." *Nation*, 1911.
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 Government ownership of the railways as unnecessary as it is undesirable; an address before the conference on Southern problems at the University of the South, Sewanee, Tennessee, August 1, 1911. [1911.]
- Meyer, Hugo Richard.** 385 M654
 Government regulation of railway rates; a study of the experience of the United States, Germany, France, Austria-Hungary, Russia and Australia. 1906. Macmillan.
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- Moseley, Edward Augustus.** r 385 M93
 Federal supremacy; a study of the power of the Congress over railroads. 1907. Privately printed.
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- Atlantic Deeper Waterways Association.** r 386 A88
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 Artificial waterways of the world. 1914. Macmillan.
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- United States—Revenue-cutter service.** r 387 U2532
 Annual report, 1911/12-1913/14. 1913-14.
 Jan. 28, 1915, the Revenue-cutter service was consolidated with the Life-saving service to form the Coast guard.
 For volume for 1897 see preceding catalogue, v.1.
- United States—Steamboat-inspection service.** r 387 U2533
 Annual report of the supervising inspector-general of steamboats for 1911/12-1915/16. 1912-16.
 For reports for 1899-1910/11 see preceding catalogue, v.1, 6.
- United States—Steamboat-inspection service.** r 387 U2533li
 List of officers of merchant, steam, motor and sail vessels licensed during the year 1911-1914/15 for a period of five years. 1912-15.
 List for 1912 covers only six months, Jan.-June.
 For volumes for 1908-10 see preceding catalogue, v.6.
- United States. Statutes.** r 387 U2536
 Laws of the United States relating to the improvement of rivers and harbors from August 11, 1790 to March 4, 1913. 3v. 1913. (62d cong. 3d sess. House. Doc. no.1491, v.30, pt.1-3.)
 v.1. From 1790 to 1896.
 v.2. From 1897 to 1913.
 v.3. [General provisions and appendix.]
 v.1-2 comp. in the office of the chief of engineers, U. S. army; v.3 prepared in the office of the judge advocate general, U. S. army, by L. W. Call.

389 Weights and measures

- Handy & Harman, Bridgeport, Conn.** r 389 H23
 The Handy book, containing tables, rules and other information regarding the working of the precious metals. 1914.
- Macfarlane, John James.** r 389 M15
 Conversion tables of foreign weights, measures and money, with comparisons of prices per pound, yard, gallon or bushel in United States money with prices per kilo, meter, liter, hectoliter, etc. in foreign money. 1913. Philadelphia Commercial Museum.
- Nevada—Agricultural experiment station, Reno.** r 389 N25
 Annual report (1st) of the Department of weights and measures for the year ending Dec. 31, 1912. 1912.
- Nicholson, Edward.** 389 N31
 Men and measures; a history of weights and measures, ancient and modern. 1912. Smith.
 Full of information on out-of-the-way points connected with the history of weights and measures of all kinds and in all countries. The author holds that there are no arbitrary standards, but that all have a directly scientific basis.
- Pennsylvania—Standards bureau.** r 389 P39
 Annual report (1st-date), 1911-date. 1911-date.
- United States—Standards bureau.** r 389 U25a
 Annual conference (7th-10th) on the weights and measures of the United States, 1912-15. 1912-16.
 For volumes for 1905-11 see preceding catalogue, v.6.

- United States**—Standards bureau. qr 389 U25i
International metric system of weights and measures. 1906.
- United States**—Standards bureau. qr 389 U25s
State and national laws concerning the weights and measures of the United States. 1912.

390 Customs. Folk-lore

- Hutchinson, Walter, ed.** q 390 H97
Customs of the world; a popular account of the manners, rites and ceremonies of men and women in all countries, with an introduction by A. C. Haddon, and with contributions by eminent authorities. 2v. [1913.] Hutchinson.
- Customs relating to birth and childhood, marriage, death and burial, together with religion and superstitions, are treated under each country. The many full-page illustrations are useful as a guide to costume.
- Parsons, Mrs Elsie Worthington (Clews).** 390 P26
Fear and conventionality. 1914. Putnam.
"References," p.219-234.
"Fear of change is a part of the state of fear man has ever lived in...Conventionality is...his system of protection against change [which] he has begun to examine and ...even to forego.' This is the sociological theory that the author presents, dwelling in general upon conventionalities that are based upon fear...wariness of strangers, apprehensiveness of the unknown that besets travel...the inflexibility of the caste system, and of rules governing hospitality...Mrs. Parsons further analyzes the conventionalities regulating sex, marriage and family relations." *Book review digest*, 1914.
- Salzmänn, Louis Francis.** 390 S18
Mediæval byways. 1913. Constable.
Contents: Wise men—and others.—Highways.—Coronations.—Death and doctors.—Those in authority.—Ivory and apes and peacocks.
"Quaint and scholarly essays, written not to instruct but to interest and amuse. In them are revealed bits of mediæval life and spirit, which the author came upon in the byways during his serious search for other information." *A. L. A. booklist*, 1914.

391 Costume

A detailed index to the books on costume may be consulted at the reference desk

- Gould, Grace Margaret.** 391 G73
Magic of dress. 1911. Doubleday.
Sensible advice to women about dressing attractively and suitably.
- Guillaumot, Auguste Etienne.** qr 391 G96c
Costumes & coiffures du 18e siècle d'après Desrais, Cochin, Watteau fils, etc.; 60 planches gravées par A. Guillaumot fils.
- Hiersemann, Karl W. pub.** r 016.391 H52
Kostüme, uniformen. 1912. (Katalog 410.)
- Hoes, Mrs Rose (Gouverneur), comp.** r 391 H67
Catalogue of American historical costumes, including those of the mistresses of the White house as shown in the United States national museum. 1915. [Waverly Press.]

- Hughes, Talbot.** 391 H89
 Dress design; an account of costume for artists & dressmakers, illustrated by the author from old examples. 1913. Hogg. (Artistic crafts series of technical handbooks.)
 "Historical survey of dress and fashions in Great Britain from the earliest times up to the Victorian Era...fully illustrated...A number of patterns drawn to scale...add practical and technical value." *International studio*, 1914.
- Piton, Camille.** qr 391 P66
 Le costume civil en France du 13e au 19e siècle. [1914.]
 "A treasure-house of curious and beautiful things, in which we can see the dress, and incidentally the customs, of the French...We would recommend it for the interest that it could add to a lesson in French history." *Spectator*, 1914.
 Fully illustrated.
- Rosenberg, Adolf.** qr 391 R72
 Geschichte des kostüms [plates]. 1905-[14].
 Many plates wanting.
- Stone, Melicent.** 391 S87
 The Bankside costume book for children; illustrated. [1913.]
 Gardner.
 "Useful and practical book on the making of accurate historical costumes for children's plays. The examples for the different dresses are taken from Shakespeare... Armour and jewellery are treated in special chapters, and there are various directions on making-up, materials, etc...Well illustrated by drawings and diagrams of the dresses of each period." *Athenæum*, 1913.
- Victoria and Albert Museum, South Kensington.** q 391 V31
 Old English costumes; selected from the collection formed by Talbot Hughes, a sequence of fashions through the 18th & 19th centuries, presented to the museum by Harrods Ltd. [1913.]
 Sixty full-page plates, with descriptive notes.
- Weiss, Hermann.** 391 W46a
 Kostümkunde. 2v. 1881-83.
 v.1. Geschichte der tracht und des geräths der völker des alterthums.
 v.2. Geschichte der tracht und des geräths im mittelalter vom 4. bis zum 14. jahrhundert.
 Illustrated.

392 Home and marriage customs

- American Sociological Society.** qr 306 A5122 v.3
 The family. [1909.] (In its Papers and proceedings, v.3, p.1-220.)
- Dealey, James Quayle.** 392 D34
 The family in its sociological aspects. 1912. Houghton.
 The same.....r 392 D34
 "Bibliography," p.135-137.
 "Brief, popular and admirably clear survey of the history of the family from the sociological viewpoint and the position of woman from earliest civilization to the present time. Special attention is given to conditions in the United States and methods of reform are suggested." *A. L. A. booklist*, 1913.
- Engels, Friedrich.** 392 E63
 Origin of the family, private property, and the state; tr. by Ernest Untermann. 1902. Kerr.
 Summarizes, from a socialist point of view, our knowledge of the development of these social institutions.

- Goodsell, Willystine.** 392 G62
History of the family as a social and educational institution. 1915.
Macmillan. (Text-book series in education.)
"Selected bibliography" at the end of all but one of the chapters.
"It is clearly written...and is an extremely valuable condensation of facts and direct citations." *American journal of sociology*, 1916.
- Howard, George Elliott.** r 392 H84f
The family and marriage; an analytical reference syllabus. 1914.
"Select bibliography," p.90-177.
Issued by the Department of political science and sociology of Nebraska University.
- Payne, George Henry.** 392 P33
The child in human progress, with a foreword by A. Jacobi. 1916.
Putnam.
"Bibliography," p.361-382.
"Historical survey of the treatment accorded children among primitive people, ancient and modern, of the child's place in the domestic, social and economic life of ancient society, in the Middle Ages, under the factory system, up to and including the rise of the modern movement for child protection." *A. L. A. booklist*, 1916.
- Thwing, Charles Franklin, & Thwing, Mrs C. F. (Butler).** 392 T43
The family; an historical and social study. 1913. Lothrop.
"General bibliography," p.239-245; "Special bibliography," p.246-253.
Since its first publication in 1886 this has been one of the best books on the subject for the general reader. It is scholarly but untechnical, and it takes for granted no special acquaintance with the literature and history of the subject.
- Todd, Arthur James.** 392 T55
The primitive family as an educational agency. 1913. Putnam.
"Selected bibliography," p.231-241.
Scholarly study of primitive marital and filial relations. Concludes that the aim and the methods of primitive instruction were communal in their nature and that the family occupied only a subordinate position as an influence in education.
- Wake, Charles Staniland.** 392 W14
Development of marriage and kinship. 1889. Redway.

394 Public and social customs. Holidays

- Andrews, William.** r 394 A57
Famous frosts and frost fairs in Great Britain; chronicled from the earliest to the present time. 1887. Redway.
From 134 A. D. to 1887. Includes descriptions of famous ice festivals on the frozen rivers.
- Cleveland—Public library.** r 016.394 C58
Reading lists for special days. 1911. Wilson.
The same.....j 016.394 C58
Contents: New Year's day.—Lincoln's birthday.—Washington's birthday.—Arbor day.—Easter.—Memorial day.—Thanksgiving day.—Christmas.
- Illustrated London news.** qr 394 I22co
Coronation panorama number [King George and Queen Mary. 1911].
Special number of the "Illustrated London news," for June 27, 1911.
- Illustrated London news.** qr 394 I22c
Coronation record number; King George and Queen Mary; ed. by B. S. Ingram. [1911.]
Special number of the "Illustrated London news," May 27, 1911.

- Olcott, Frances Jenkins, ed.** 394 O23
 Good stories for great holidays; arranged for story-telling and reading aloud and for the children's own reading. 1914. Houghton.
The same.....j 394 O23
The same.....r 394 O23
Contents: New Year's day.—Lincoln's birthday.—Saint Valentine's day.—Washington's birthday.—Resurrection day (Easter Sunday).—May day.—Mothers' day.—Memorial day and Flag day.—Independence day.—Labor day.—Columbus day.—Halloween.—Thanksgiving day.—Christmas day.—Arbor day.—Bird day.
 "Reference lists for story-telling and collateral reading," p.431-443.
- Riverside, Cal.—Public library.** r 016.394 R52
 Home festivals; a reference list on Hallowe'en, Thanksgiving and Christmas. 1913.
- Urlin, Ethel Lucy Hargreave.** 394 U27
 Festivals, holy days and saints' days; a study in origins and survivals in church ceremonies & secular customs. [1915.] Simpkin.
 "Bibliography," p.259-260.
- Trumbull, Henry Clay.** 394.4 T77
 The blood covenant; a primitive rite and its bearings on Scripture. 1898. Wattles.

Christmas

- Bell, Lilian, *afterward Mrs Bogue.*** r 394 B41
 Story of the Christmas ship. 1915. Rand.
 Lilian Bell had charge of the "Christmas ship" which the "Chicago herald" sent to Europe in 1914 filled with presents for the children of the men who were then fighting in the trenches.
- Bennett, Arnold.** 394 B43
 Feast of St. Friend; a Christmas book. 1911. Doran.
 Plea for renewing the spirit of Christmas and making it the feast of friendship.
- Dier, J. C. *comp.*** qj 394 D57
 Children's book of Christmas. 1911. Macmillan.
 Selections from different writers telling of the Christmas customs of many lands and times. Also contains Christmas poems and carols. Color plates and other illustrations.
- Dykema, Peter William.** qr 394 D99
 A community Christmas; suggestions for town Christmas celebrations. [1915.]
 A pamphlet.
- Miles, Clement A.** 394 M68
 Christmas in ritual and tradition, Christian and pagan. 1912. Unwin.
 "Notes and bibliography," p.363-387.
The same.....r 394 M68
 Serious contribution to the lore of Christmas. Shows how the feast is or has been kept in various lands and ages and traces as far as possible the origin of the pagan elements that have entered into its celebration. Pt.1 deals with the festival on its distinctively Christian side; pt.2 treats of pagan survivals. Illustrated, partly in color.
- Pittsburgh—Municipal Christmas tree committee.** qr 394 P67
 [Report, 1913. 1914.]

- Smith, Elva Sophronia, & Hazeltine, A. I. comp.** 394 S64
 Christmas in legend and story; a book for boys and girls. 1915.
 Lothrop.

The same.....j 394 S64

Collection made in an endeavor to meet the need for Christmas stories, legends and poems which have literary merit, are reverent in spirit, and are also suitable for children.

Poems, stories and traditional tales, including The Christmas silence, by Margaret Deland.—The first Christmas roses.—The little gray lamb, by A. B. Sullivan.—The star bearer, by E. C. Stedman.—The flight into Egypt, by Selma Lagerlöf.—Legend of St. Christopher.—The cross of the dumb, by Fiona Macleod.—Earl Sigurd's Christmas eve, by H. H. Boyesen.—The sabot of little Wolff, by François Coppée.—Where love is, there God is also, by Count Tolstoi.

Illustrations from famous paintings.

395 Etiquette

r 395 F46

- A fifteenth-century courtesy book; ed. from the ms. by R. W. Chambers, and Two fifteenth-century Franciscan rules; ed. from the ms. by W. W. Seton.** 1914. (Early English Text Society. Publications, v.148.)

Title of manuscript of courtesy book reads "A generall rule to teche every man that is wyllynge for to lerne to serve a lorde or mayster in every thyng to his plesure."

Bibliography, p.8.

- Hall, Mrs Florence Marion (Howe).** j 395 H17

Boys, girls and manners. 1913. Estes.

"The rules are given, not as dry and dusty skeletons, but as living organisms, clothed in the tissue of anecdote and illustration." *Introduction.*

- Hall, Mrs Florence Marion (Howe).** 395 H17g

Good form for all occasions; a manual of manners, dress and entertainment for both men and women. 1914. Harper.

The same.....r 395 H17

Contents: The country house.—Afternoon teas and receptions for the débutante, "thé dansant".—Breakfasts and luncheons.—Dinners formal and informal.—Bridesmaids' luncheons, bachelor dinners and wedding anniversaries.—House and church weddings.—Public dinners and receptions.—Balls and dances.—Automobile trips.—Bridge parties and evening receptions.—Hotels, restaurants and roof-gardens.—Theater, opera and concert-hall.

- Hall, Mrs Florence Marion (Howe).** 395 H17s

Social customs. 1911. Estes.

Treats of the origin and evolution of manners and of correct social usage for all occasions.

- Holt, Emily.** 395 H74a2

Encyclopædia of etiquette. 1913. Doubleday.

Contents: Introductions.—Calls.—Cards.—Dinners.—Table manners.—Balls.—Weddings.—Luncheons and breakfasts.—Theatre and opera.—Visiting and house parties.—Receptions.—Musicales.—Garden parties.—Funerals.—Christenings.—Bachelor hospitalities.—Sport.—In public.—Correspondence.—Children.—Servants.—Etiquette of travel.—Etiquette in foreign countries.—Club etiquette.

- Irvine, Leigh Hadley.** r 395 I28

Irvine's dictionary of titles; an exhaustive work on the correct use of titles and salutations in writing and speaking, upon original plans, containing authentic information on the etiquette of correspondence, official forms of address, superscriptions, closing forms of letters, including Federal, state, ecclesiastical, military and naval customs; methodically arranged and elaborately cross-indexed [written with the

- Irvine, Leigh Hadley**—*continued*. r 395 I28
 assistance of] a corps of eminent writers, editors, specialists, prelates
 and heads of university departments. 1912. Crown Pub. Co.
"Authorities quoted," p.5.
 Being in part a codification of one section of the author's "Cyclopedia of diction."
- Marshall, Frederic**. r 395 M41
 Curiosities of ceremonials; or, International vanities. 1880. Nimmo.
Contents: Ceremonial.—Forms.—Titles.—Decorations.—Emblems.—Diplomatic
 privileges.—Alien laws.—Glory.
- Roberts, Helen Lefferts**. 395 R53
 Cyclopaedia of social usage; manners and customs of the 20th cen-
 tury. 1913. Putnam.

396 Position of women

See also Woman suffrage, 324.3; and Education of women, 376

- Allen, William Harvey**. 396 A43
 Woman's part in government whether she votes or not. 1911. Dodd.
The same. 1913.....r 396 A43
*"A book of the hour, outlining sharply the main questions now agitated, or needing
 agitation, upon which woman's influence can be brought to advantage: philanthropy,
 hygiene, school, municipal government, public business, etc. Its main purpose is to
 arouse and concentrate the interest of women on these matters."* *A. L. A. booklist*, 1912.
- American Academy of Political and Social Science**. 396 A51
 Women in public life. 1914.
Contents: The feminist movement.—Public activities of women.—Woman and the
 suffrage.
 v.56, Nov. 1914, of the "Annals of the American Academy of Political and Social
 Science."
The same. 1914. (In American Academy of Political and Social
 Science. Annals, v.56.).....r 306 A51 v.56
- Anthony, Katharine Susan**. 396 A62
 Feminism in Germany and Scandinavia. 1915. Holt.
Contents: The coalescence of the European women.—Schools and the woman.—
 Some realizations in dress reform.—The Mutterschutz idea.—State maternity insurance.
 —Reclaiming the illegitimate child in Norway.—The economic renaissance of the Ger-
 man women.—The Valkyrie vote.—The philosophy of feminism.
"Bibliography," p.253-255.
- Autobiography of a happy woman**. 1914. Moffat. 396 A93
*"The writer is a militant woman, happy because she has won her personal fight, a
 fight against the inherited helplessness and dependence of her sex, not in politics, but in
 the ordinary business of living...Not properly an autobiography, but a tract. The style
 is lively and aggressive...We learn something of the writer's experiences as student,
 schoolmistress, woman of business, and journalist. But she continually interrupts her
 own story to tell the stories of other women, and to point and repent her single moral."*
Nation, 1914.
- Barnes, Earl**. 396 B25
 Woman in modern society. 1912. Huebsch.
*"Study of the different ideals inherent in man and woman, tracing the variations
 in the position of woman from the beginning of history, and specially studying her part
 in education, culture and industry and her economic position in the United States at
 the present day. The author approves equal suffrage though questioning if it will prove
 an unmixd good. Inclines to the radicalism expressed in Ellen Key's works."* *A. L. A.*
booklist, 1912.

Bax, Ernest Belfort.

396 B33

The fraud of feminism. 1913. Richards.

Contents: Historical.—The main dogma of modern feminism.—The anti-man crusade.—Always the "injured innocent."—The "chivalry" fake.—Some feminist lies and fallacies.—The psychology of the movement.—The indictment.

"Refutation of the current arguments in favour of Feminism, and a brief statement of the case against [the movement]." *Preface.*

Beard, Mrs Mary (Ritter).

396 B34

Woman's work in municipalities. 1915. Appleton. (National Municipal League series.)

"In grappling with the problems of education, public health, the social evil, recreation, the assimilation of races, housing, social service, corrections, public safety, civic improvement, government and administration, the author records woman's achievements, as represented in urban communities in various parts of the United States, not alone the large cities. Suggestive and inspiring to individuals and clubs." *A. L. A. booklist, 1915.*

Bennett, Helen Christine.

396 B43

American women in civic work. 1915. Dodd.

Contents: C. B. Crane.—Sophie Wright.—Jane Addams.—Kate Barnard.—A. F. Bacon.—H. K. Schoff.—F. A. Kellor.—Julia Tutwiler.—L. L. Blankenburg.—A. H. Shaw.—E. F. Young.

Bruce, Henry Addington Bayley.

396 B82

Woman in the making of America. 1912. Little.

Contents: In the time of the founding.—Later colonial belles and housewives.—The women of the Revolution.—Heroines of the westward movement.—The struggle over slavery.—Woman's work in the Civil war.—The women of to-day.

Christie, Mrs Jane Johnstone.

396 C46

The advance of woman from the earliest times to the present [1912]. 1912. Lippincott.

Contents: Mankind's dumb progenitors.—Early society and the matriarchate.—The patriarchate and the historical period.—Man as ruler.—Man a social coward.—Woman as man has made her.—Evil consequences of woman's degradation.—What woman has done.—A last word.

Colquhoun, Mrs Ethel Maud (Cookson).

396 C72

The vocation of woman. 1913. Macmillan.

Though this book is strongly conservative, scarcely anything so thoughtful and so attractive and genial in style and spirit has appeared in the literature of the subject. Maintains that women, though not inferior to men, are different and should therefore have a different education and different occupations. *Condensed from Nation, 1914.*

Coolidge, Mrs Mary Elizabeth Burroughs (Roberts) Smith.

396 C78

Why women are so. 1912. Holt.

Analytical and critical study of the reasons why women are what they are. It sets itself to answer the question "Is the characteristic behavior which is called feminine an inalienable quality or merely an attitude of mind produced by the coercive social habits of past times?"

Cooper, Mrs Elizabeth (Beaver).

396 C786

The harim and the purdah; studies of oriental women. [1915.] Unwin.

"Author...has made her sketches...vivid and arresting...Whether the women described are those of Egypt and the desert, of India, Burmah, China, or Japan, they are brought to our notice as living individual women and not as the lay figures of ethnology." *Outlook (London), 1915.*

Corbin, Mrs Caroline (Fairfield).

r 396 C81

Die stellung der frau in dem sozialistischen Utopia.

With this is bound Bayer's "Die wahre und reine demokratie."

Dell, Floyd.

396 D41

Women as world builders; studies in modern feminism. 1913. Forbes.

"Eight stimulating little chapters offering together an interpretation of the feminist movement. The author's method is to study the movement thru the personalities and ideals of typical leaders. The ten women whom he chooses as representatives are: Charlotte Perkins Gilman; Jane Addams; Emmeline Pankhurst; Olive Schreiner; Isadora Duncan; Beatrice Webb; Emma Goldman; Margaret Dreier Robins; Ellen Key; and Dora Marsden." *Book review digest*, 1913.

George, W. L.

396 G31

Woman and to-morrow. 1913. Jenkins.

Contents: General.—Feminism and suffragism.—The home.—The arts.—Woman and labour.—Woman and passion.

While it is by no means fundamental in its point of view and exhibits little grasp of certain social problems, it does contain some insight into certain phases of the woman movement. Author is a strong partisan of women and of the feminist movement, but on sentimental and literary rather than on rational grounds. *Condensed from American journal of sociology*, 1913.

Hale, Mrs Beatrice Forbes-Robertson.

396 H15

What women want; an interpretation of the feminist movement.

1914. Stokes.

"Views of the woman movement as [the author] has known it in...England and America...Reflects the spirit of the American branch...mellowed...by the experience of measurable success, rather than the more rebellious spirit of the late English militants...Deals with the psychology of the woman's movement rather than the suffrage movement proper." *Survey*, 1915.

Hard, William.

396 H25

The women of tomorrow. 1911. Baker.

Contents: Love deferred.—Learning for earning.—Learning for spending.—The wasters.—Mothers of the world.

Papers reprinted from "Everybody's magazine" on the changing position of women, their training for wage-earning and home-making, and kindred topics.

Hartley, Catherine Gasquoine, *afterward* Mrs Gallichan.

396 H32

Age of mother-power; the position of woman in primitive society.

1914. Dodd.

Also published under the title "The position of woman in primitive society."

"[The author's] interest in the position of woman in primitive society is plainly subservient to her interest in present-day feminism. She had the ingenuity to seek in primitive history and legend grounds for a popular campaign...The picture drawn of the age when woman exercised rights equal, if not superior, to those of men is pertinent to the discussion of the pending problem, and it contains elements which may serve as a partial *modus operandi* for the conquest of her place by woman in our own day. This book, while starting with second-hand documents, has presented a somewhat novel conclusion, and has 'connected up' an academic discussion with a vital issue." *Dial*, 1914.

Hillis, Mrs Annie Louise (Patrick).

396 H56

The American woman and her home. 1911. Revell.

Contents: Some successes of American women.—Some failures of American women.—The serious note in the education of women.—The girl graduate.—The home life of working girls.—Women in the church.—The foundation of the home.—Woman's partnership with her husband.—In the light of foreign eyes.—Conclusion.

Key, Ellen Karolina Sofia.

396 K23

The woman movement; tr. by M. B. Borthwick, with an introduction by Havelock Ellis. 1912. Putnam.

Contents: The external results of the woman movement.—The inner results of the woman movement.—The influence of the woman question upon single women.—The influence of the woman movement upon the daughters.—The influence of the woman

Key, Ellen Karolina Sofia—*continued.*

396 K23

movement upon men and women in general.—The influence of the woman movement upon marriage.—The influence of the woman movement upon motherhood.

"She has not put forward this book as a manifesto of the advanced guard of the Woman's Movement, but merely as the reflections of an individual woman who, for nearly half a century, has pondered, felt, studied, observed this movement in many parts of the world. But it would not be easy to find a book in which the claims of Feminism—in the largest modern sense—are more reasonably and temperately set forth." *Havelock Ellis, in introduction.*

Laughlin, Clara Elizabeth.

396 L36

Work-a-day girl; a study of some present-day conditions. 1913.

Revell.

Sympathetic study of the causes of downfall of girls employed in large cities. In a series of intimate pictures we have glimpses of the working girl's appearance in the New York night court, the evils of her home life, her education and her beginnings as a wage-earner.

Martin, Edward Sandford.

396 M42

The unrest of women. 1913. Appleton.

Contents: The feminine unrest.—The disquiet of Miss Thomas.—The agitation of Mrs Belmont.—The admirable Miss Addams.—Self-supporting wives.—Feminism and the dual standard.—The cause and the cure.

Mayreder, Frau Rosa (Obermayer).

396 M54

Survey of the woman problem [tr.] from the German by Herman Scheffauer. 1913. Heinemann.

"A brilliant contribution to the literature and...to the science of the subject with which it deals. It is the most thorough, powerful, and scientific presentment of the case for the intellectual woman that we have yet met. The author has met fairly and squarely the many philosophic and scientific disparagements of women which have been given to the world, and has demonstrated the fact that they are mutually contradictory and practically cancel out." *Outlook (London), 1913.*

qr 396 M76

The Modern woman [weekly], Oct. 16–Nov. 27, 1913, Feb. 12–March 5, 1914. v.1, no.1–11. 1913–14. [Pittsburgh.]

No more published.

Nearing, Scott, & Nearing, Mrs N. M. (Seeds).

396 N18

Woman and social progress; a discussion of the biologic, domestic, industrial and social possibilities of American women. 1912. Macmillan.

"Informal, very up-to-date survey of the 'new woman's' world and opportunities, touching on every important phase of her many-sided life. A book of suggestion rather than information, quoting extensively from recent literature and giving references to works which furnish good material for further reading." *A. L. A. booklist, 1912.*

Parsons, Mrs Elsie Worthington (Clews).

396 P26

The old-fashioned woman; primitive fancies about the sex. 1913. Putnam.

"References," p.331–365.

"Very readable book which differs from most books of its kind in the fact that it is based upon some real knowledge of anthropology; for under this gently ironical and slightly misleading title Mrs. Parsons undertakes to show that all the conventional ideas of what is appropriate to sex have their origin in the fancies of primitive men." *Nation, 1913.*

Scharlieb, Mary.

396 S31

Womanhood and race-regeneration. 1912. Moffat. (New tracts for the times.)

Contents: The training of women.—Woman's influence on the race.—Women as citizens.

Schirmacher, Käthe.

396 S33

The modern woman's rights movement; a historical survey; tr. from the second German edition by C. C. Eckhardt. 1912. Macmillan.

The same.....r 396 S33

History of the woman's rights movement in all countries of the world where it has made itself felt. The author is (1912) a German woman's rights advocate, actively engaged in propaganda.

Smith, William Ramsay.

396 S66

Woman and her possibilities; an address to the Women's Non-party Political Association and the League of Liberal Christian Women of South Australia. 1913. Hassell.

Author believes that ideal relations in family and social life best fulfil the true destiny of woman.

Spencer, Mrs Anna (Garlin).

396 S74

Woman's share in social culture. 1913. Kennerley.

Contents: The primitive working-woman.—The ancient and the modern lady.—The drama of the woman of genius.—The day of the spinster.—Pathology of woman's work.—The vocational divide.—The school and the feminine ideal.—The social use of the post-graduate mother.—Problems of marriage and divorce.—Woman and the state.

Appeared in the "Forum," v.46-48, Nov. 1911-Oct. 1912.

Swanwick, Mrs Helena M. (Sickert).

396 S97

Future of the women's movement, with an introduction by Mrs Fawcett. 1914. Bell.

"Sane, moderate view of what that movement means to the average Suffragist... The remarks on Militancy deserve attention, and are extremely fair to both sides." *Athenæum*, 1913.

Tarbell, Ida Minerva.

396 T19

The business of being a woman. 1912. Macmillan.

Contents: The uneasy woman.—On the imitation of man.—The business of being a woman.—The socialization of the home.—The woman and her raiment.—The woman and democracy.—The homeless daughter.—The childless woman and the friendless child.—On the ennobling of the woman's business.

Many of these chapters appeared in the "American magazine," v.73-74, Jan.-Aug. 1912.

Tarbell, Ida Minerva.

396 T19w

The ways of woman. 1915. Macmillan.

Contents: What women are doing.—Give the girl a chance.—That's her business.—The talkative women.—The culture chasers.—The twenty-cent dinner.—A young girl's thoughts.

Appeared in the "Woman's home companion," v.42, Jan.-Oct. 1915.

Supplementary to "The business of being a woman."

Author "cites the 13th census to prove that 86.7 per cent of girls of marriageable age do actually marry. She therefore argues that the education of girls should be directed towards those duties of the home that will for the majority be permanent. Other chapters discuss woman's power to be of service through her experience in constantly meeting small emergencies, through her ability to talk cheerfully or amusingly ...through her sympathy with the intellectual and spiritual needs of young girls." *Book review digest*, 1915.

Wollstonecraft, Mary, afterward Mrs Godwin.

396 W84

Vindication of the rights of woman, with an introduction by E. R. Pennell. 1891. Scott.

"Although now little read—its assertions, so startling in the last century, having become truisms in this,—it must be ranked among the epoch-making books. It is the prophecy of the nineteenth century by a woman who endured the tyranny of the

Wollstonecraft, Mary, afterward Mrs Godwin—continued. 396 W84

eighteenth over her sex. In her dedication of the work to Talleyrand, she sets forth its argument:—"Contending for the rights of woman, my main argument is based on this simple principle,—that if she be not prepared by education to become the companion of man, she will stop the progress of knowledge; for truth must be common to all, or it will be inefficacious with respect to its influence on the general practice." *Warner's Library of the world's best literature.*

Woods, Robert Archey, & Kennedy, A. J. ed. 396 W86

Young working girls; a summary of evidence from 2,000 social workers; ed. for the National Federation of Settlements, with an introduction by Jane Addams. 1913. Houghton.

This excellent social study is a survey of the problem of the adolescent working girl in her relation to industry, to pleasure, and to home life. Seeks to ascertain the causes of moral strain, and suggests more effective methods in social work with girls. Appendix contains schedules of questions used as the basis of the inquiry.

Zahm, John Augustine, (pseud. H. J. Mozans). 396 Z18

Woman in science, with an introductory chapter on woman's long struggle for things of the mind. 1913. Appleton.

Contents: Woman's long struggle for things of the mind.—Woman's capacity for scientific pursuits.—Women in mathematics.—Women in astronomy.—Women in physics.—Women in chemistry.—Women in the natural sciences.—Women in medicine and surgery.—Women in archeology.—Women as inventors.—Women as inspirers and collaborators in science.—The future of women in science; summary and epilogue.

"Bibliography," p.419-426.

Zeyneb, hanum. 396 Z56

A Turkish woman's European impressions; ed. & with an introduction by Grace Ellison. 1913. Lippincott.

"A very distinguished European Turkish lady...has jotted down her impressions of the modern woman...She herself is emancipate, but she is Oriental to the bone. She does not see where the European woman has any serious advantage, except in physical liberty, over the Eastern lady of the harem. Her book reveals a pessimism and sadness which, coupled with the charm of a distinguished personality, give her work a note of critical significance out of the common. She sees her Western sister in the heyday of the movement—and she remains untouched, doubting, even cynical." *English review, 1913.*

Legal status

Paul, Alice, comp. r 396.2 P31

Outline of the legal position of women in Pennsylvania, 1911 (including changes made in the law by the 1911 legislature), with introductory note by O. J. Roberts. [1911.]

Wilson, Jennie Lansley. 396.2 W76

Legal and political status of women in the United States. 1912. Torch Press.

The same.....r 396.2 W76

Concise digest of state laws relating to women.

Rembaugh, Bertha, comp. r 396.3 R33

Political status of women in the United States; a digest of the laws concerning women in the various states and territories, with an introduction by H. S. Blatch. 1911. Putnam.

Employment

See also Women in industry, 331.4

Association of Collegiate Alumnae. r 396.5 A84

Vocational training; a classified list of institutions training educated women for occupations other than teaching; prepared by the Committee on vocational opportunities of the association. 1913.

Dodge, Harriet Hazen. 396.5 D66

Survey of occupations open to the girl of 14 to 16 years. 1912.

Girls Trade Education League.

The same.....r 396.5 D66

Laselle, Mary Augusta, & Wiley, K. E. 396.5 L34

Vocations for girls, with an introduction by Meyer Bloomfield. 1913. Houghton.

"Bibliography," p.130-132.

Definite information as to conditions of work and opportunities for advancement in the more common vocations open to girls who have had a common school or high school education only.

Minnesota University. r 396.5 M72

Vocations open to college women. (Bulletin; extra series, no.1.)

Morley, Edith Julia, ed. 396.5 M89

Women workers in seven professions; a survey of their economic conditions and prospects; ed. for the Studies committee of the Fabian women's group. 1914. Routledge.

Contents: The teaching profession.—The medical profession, including dentistry.—The nursing profession, together with midwifery and massage.—Women as sanitary inspectors and health visitors.—Women in the civil service.—Women clerks and secretaries.—Acting as a profession for women.—APPENDICES: Scheme of work of the Fabian women's group; Latest census returns of women workers in the seven professions considered in this book.

Poughkeepsie, N. Y.—Education board. 396.5 P86

Choosing an occupation; the kinds of work that are open to women in Poughkeepsie; comp. for the Board of education by F. M. Brewer, with the assistance of the superintendent of schools and the city teachers. 1911. Haight.

Contains bibliographies.

Vocation Office for Girls, Boston. 396.5 V36

Vocations for Boston girls. 1911-13. Girls Trade Education League. (Bulletin no.1-9, 11-14.)

Contents: Telephone operating.—Bookbinding.—Stenography and typewriting.—Nursery maid.—Dressmaking.—Millinery.—Straw hat making.—Manicuring and hair-dressing.—Nursing.—Clothing machine operating.—Paper box making.—Confectionery manufacture.—Knit goods manufacture.

"References" at the end of each bulletin.

Very useful also for girls in other cities. Gives advantages and disadvantages of each occupation, wages to be expected, etc.

Weaver, Eli Witwer, ed. 396.5 W36a

Profitable vocations for girls; prepared by a committee of teachers under the direction of E. W. Weaver. 1916. Barnes.

"References" at end of many of the chapters.

The same. 1913.....396.5 W36

Offers in simple terms advice on the choice of a vocation, the preliminary steps

Weaver, Eli Witwer, ed.—*continued.*

396.5 W36a

towards securing a position, and the means of advancement. Definite information about labor laws and specific lines of work. Each chapter is followed by a list of useful reference books and by suggestive exercises designed to increase the reader's grasp of the subject.

Wisconsin University—University extension division.

396.5 W81

Vocational conference papers and vocational preparation, including correspondence study. 1913. (Bulletin, v.4a, no.592.)

The same. 1913. (In its Bulletin, v.4a, no.592.) r 378.1 W81 1913

A number of papers presented at a vocational conference for women in the University of Wisconsin.

Women's Educational and Industrial Union, Boston.

396.5 W85p

The public schools and women in office service; prepared under the direction of May Allinson. 1914. (Studies in economic relations of women.)

Contents: Introductory, by May Allinson.—The public school and its problems, by L. C. Phinney.—Character of office service, by J. M. Cunningham.—Wages, by M. M. Lothrop.—Home life and responsibilities, by Hazel Manning.—Summary and outlook, by May Allinson.

Women's Educational and Industrial Union, Boston.

396.5 W85v

[Vocation series bulletin. no.1-14.] 1911.

Contents: Probation work.—Advertising.—Home and school visiting.—Publishing house work.—Poultry raising.—Proof reading.—Real estate.—Industrial chemistry.—Bacteriological work.—Interior decoration.—Medical social service.—Organizing charity.—Social service for children.—Settlement work.

The same. r 396.5 W85v

Women's Educational and Industrial Union, Boston.

396.5 W85vo

Vocations for the trained woman; agriculture, social service, secretarial service, business of real estate; prepared under the direction of S. M. Kingsbury. 1914. Longmans. (Studies in economic relations of women, v.1, pt.2.)

Contents: Opportunities for women in agriculture, by Eleanor Martin.—Opportunities for women in social service, by the Committee on economic efficiency of college women, Boston branch, Association of Collegiate Alumnae.—Opportunities for women in secretarial service, by M. A. Post.—Opportunities for women in the business of real estate, by Eleanor Martin.

The same. r 396.5 W85vo

397 Gipsies

Black, George Fraser, comp.

qr 016.397 B51

A gypsy bibliography. 1914. Constable. (Gypsy Lore Society. Monographs, no.1.)

Cuttriss, Frank.

397 C95

Romany life; experienced and observed during many years of friendly intercourse with the gypsies. [1915.] Mills.

Author describes the life and customs of the gypsies in England, and protests against the usual treatment of them as vagrants. Excellent illustrations.

Sinclair, Albert Thomas.

qr 397 S61

An American-Romani vocabulary; comp. and ed. from manuscripts in the New York Public Library by G. F. Black. 1915.

398 Folk-lore

General works

- Barto, Philip Stephan.** 398.2 B27
Tannhäuser and the mountain of Venus; a study in the legend of the Germanic paradise. 1916. Oxford University Press, Amer. branch. (Germanic literature and culture.)
"Bibliography," p.249-258.
The same r 398.2 B27
- Burne, Charlotte Sophia, ed.** r 398 B92
Handbook of folklore. 1914. (Folk-lore Society. Publications, v.73.)
Contents: What folklore is.—How to collect and record folklore.—Belief and practice.—Customs.—Stories, songs and sayings.—Appendices.
"Authorities cited," p.356-364.
Based on "Handbook of folklore," by G. L. Gomme (r 398 G59).
- Cowan, Frank, comp.** r 398 C84
Dictionary of the proverbs and proverbial phrases of the English language relating to the sea and such associated subjects as fish, fishing, ice, island, navigation, pearl, river, sailor, salt, shell-fish, ship, water, weather and whale, with notes, explanatory, historic and etymologic and illustrations from the works of English writers from the earliest to the present time [1894]. 1894. Oliver Pub. House.
- Curtin, Jeremiah.** 398 C93my
Myths of the Modocs. 1912. Little.
Mr Curtin visited the remnants of this tribe of Indians, which, after the Modoc war of 1872-73, was quartered on a reservation in Indian Territory, and gathered together the stories which are common among them.
- Dudley, Louise.** r 398 D87
The Egyptian elements in the legend of the body and soul. 1911.
(Bryn Mawr College. Monographs; monograph series, v.8.)
"List of texts most frequently cited," p.9-11.
Thesis for Ph. D., Bryn Mawr College.
- Eastman, Mary Huse, comp.** r 016.398 E18
Index to fairy tales, myths and legends. 1915. Boston Book Co.
(Useful reference series.)
"List of books analyzed," p.297-311.
- Gaster, Moses.** r 398 G22
Rumanian bird and beast stories rendered into English. 1915. Sidgwick. (Folk-lore Society. Publications, no.75.)
- Ginzberg, Louis, comp.** 398 G43
Legends of the Jews; tr. from the German manuscript by Henrietta Szold. v.4. 1913. Jewish Publication Soc. of America.
v.4. Bible times and characters from Joshua to Esther.
"In the present work...I have made the first attempt to gather from the original sources all Jewish legends, in so far as they refer to Biblical personages and events, and reproduce them with the greatest attainable completeness and accuracy." *Preface.*
For v.1-3 see preceding catalogue, v.6.

Gomme, George Laurence. 398 G59fo
Folklore as an historical science. [1908.] Methuen. (Antiquary's books.)

Demonstrates the value of folk-lore as an aid in historical research.

Griffith, Reginald Harvey. r 398 G89

Sir Perceval of Galles; a study of the sources of the legend. [1911.] Chicago University Press.

Thesis for Ph. D., University of Chicago.

The problem of the study is to discover the origin of this mediæval English poem and whether or not it is the offspring of a romance composed in French by Chrestien de Troyes.

Gutch, Mrs E. comp. r 398 G98e

Examples of printed folk-lore concerning the East Riding of Yorkshire. 1912. Nutt. (Folk-lore Society. Publications, v.69.)

"Sources," p.19-27.

Henderson, George. 398 H44

Survivals in belief among the Celts. 1911. Maclehose.

As philologist, folklorist and anthropologist, author is well equipped for his work. He includes Scotland, Ireland, Wales, Brittany and the Isle of Man in the area from which he collects his data, and his illustrations and parallels are drawn from the whole circle of anthropological research.

Hibbard, Laura A. tr. 398 H52

Three Middle English romances: King Horn, Havelok, Beves of Hampton. 1911. Nutt.

"Bibliographical note," p.13-14.

Not a complete translation but a narration in which the incidents of the romances and the simplicity of the original versions are preserved.

Hopkins, Annette Brown. r 398 H78

Influence of Wace on the Arthurian romances of Crestien de Troies. 1913. Collegiate Press.

Thesis for Ph. D., University of Chicago.

Luzel, François Marie. 398 L981

Légendes chrétiennes de la Basse-Bretagne. 2v. 1881. (Les littératures populaires de toutes les nations, v.2-3.)

Olcott, William Tyler. 398 O23

Sun lore of all ages; a collection of myths and legends concerning the sun and its worship. 1914. Putnam.

"Bibliography," p.329-331.

Much interesting material has been brought together and presented in attractive form. Besides folk-lore and mythology will be found chapters on solar festivals, omens and superstitions, burial customs, orientation, symbolic forms of the sun, and the sun revealed by science.

Peebles, Rose Jeffries. r 398 P36

The legend of Longinus in ecclesiastical tradition and in English literature, and its connection with the Grail. 1911. Furst. (Bryn Mawr College. Monographs; monograph series, v.9.)

The literature and art of the middle ages found no more popular subject for treatment than the Christian legend of Longinus, the blind soldier who pierced the side of the Crucified and regained his sight through the blood that touched his eyes, who thereupon believed in Christ, and finally, after many adventures, suffered martyrdom. The present study traces the origin and development of the legend and its course in English literature. *Condensed from introduction.*

Shearin, Hubert Gibson, & Combs, J. H. comp. r 398 S53
 Syllabus of Kentucky folk-songs. 1911. (Tennessee University. Studies in English.)

Simpkins, John Ewart, comp. r 398 S61
 Examples of printed folk-lore concerning Fife, with some notes on Clackmannan and Kinross-shires, with an introduction by R. C. Mac-lagan and an appendix from ms. collections by David Rorie. 1914. (Folk-lore Society. Publications, v.71.)

"List of authorities cited," p.19-35.

Short extracts from various authorities showing the superstitious beliefs and practices, the customs, games and folk-lore peculiar to these shires.

Skinner, Charles Montgomery. 398 S62mt
 Myths and legends of flowers, trees, fruits and plants in all ages and in all climes. 1911. Lippincott.

Sommer, Heinrich Oskar, ed. qr 398 S69
 The vulgate version of the Arthurian romances; ed. from manuscripts in the British Museum. v.6-8. 1913-16. (Carnegie Institution of Washington. Publication no.74.)

v.6. Les aventures ou la quête del Saint Graal.—La mort le roi Artus.

v.7. Supplement; Le livre d'Artus.

v.8. Index of names and places.

Mr Sommer merely prints exact transcripts of the manuscripts without editing them. Head-lines and ample side-notes, however, make it easy to glance rapidly over the narrative, and a system of cross-references to previous editions of these romances renders comparison easy.

For v.1-5 see preceding catalogue, v.6.

Stewart, Caroline Taylor. qr 398.4 S84
 Die entstehung des werwolfglaubens. [1909.]

"Anmerkungen," p.38-51.

Tristan. 398 T74
 Romance of Tristan & Iseult; drawn from the best French sources and retold by J. Bédier; rendered into English by H. Belloc. 1913. Allen.

"Mr. Belloc's rather affected style will hardly satisfy those who have been delighted by M. Bédier himself. The book is nevertheless welcome as a rendering of what is almost certainly the best prose version of the story." *Spectator*, 1913.

Wentz, Walter Yeeling Evans. 398 W52
 The fairy-faith in Celtic countries. 1911. Frowde.

"Book is noteworthy in that it approaches the subject of fairy-lore from a new, or at least from an unusual, point of view. It takes the matter up primarily as an inquiry in psychical research...Mr. Wentz, while conversant with the literary and historical problems involved, is chiefly concerned with the actual truth of his narratives and with their scientific or philosophical explanations." *Nation*, 1912.

Westervelt, William Drake, comp. 398 W561
 Legends of gods and ghosts (Hawaiian mythology); collected and translated from the Hawaiian. 1915. Ellis.

Williams, Alfred Mason. 398 W74
 Studies in folk-song and popular poetry, with a prefatory note by Edward Clodd. 1895. Stock.

Contents: American sea songs.—Folk-songs of the Civil war.—English and Scottish popular ballads.—Lady Nairne and her songs.—Sir Samuel Ferguson and Celtic poetry.—William Thom, the weaver poet.—Folk-songs of Lower Brittany.—The folk-songs of Poitou.—Some ancient Portuguese ballads.—Hungarian folk-songs.—Folk-songs of Roumania.

Collections

Folk tales. Fairy tales

Arabian nights' entertainments. j 398 A65ao

Arabian nights' entertainments, based on a translation from the Arabic by E. W. Lane; selected, ed. and arranged for young people by F. J. Olcott, with illustrations by M. S. Orr. 1913. Holt.

Includes among other tales the story of the bottled genii and the afrite of the black stone pillar, "The adventures of Hassan of Balsora," which describes the wonders of the enchanted islands of Wak Wak, and the humorous story of Caliph the fisherman.

Arabian nights' entertainments. j 398 A65aol

More tales from the Arabian nights; based on the translation from the Arabic by E. W. Lane; selected, ed. and arranged for young people by F. J. Olcott; illustrations and decorations by Willy Pogany. 1915. Holt.

Contents: Story of the hunchback.—Story of Prince Camaralzaman and the princess Badoura.—Story of Joudar.—Story of Mahomed Ali the jeweller, or the false caliph.—Story of Ali of Cairo.—Story of Abou Mahomed the lazy.—Story of Abdallah of the land and Abdallah of the sea.—Story of Prince Ahmed and the fairy Periebanou.—Story of the princess Periezade and the speaking bird, the singing tree, and the golden water.

Arabian nights' entertainments. j 398 A65sh

Stories from the Arabian nights; retold by Laurence Housman, with [24] drawings by Edmund Dulac. [1911.] Hodder.

Contents: Ali Baba and the forty thieves.—The story of the wicked half-brothers.—The story of the princess of Deryabar.—The story of the magic horse.—The fisherman and the genie.—The story of the king of the Ebony isles.

The same, with [50] drawings by Edmund Dulac. Hod-
der.qj 398 A65shz

Asbjörnsen, Peter Christen. j 398 A79fa

The fairy world; folk and fairy tales; tr. by H. L. Brækstad, with an introduction by E. W. Gosse. De Wolfe.

Norwegian fairy stories.

Partial contents: The man who was going to mind the house.—The pancake.—The three billy goats who went up into the hills to get fat.—The lad and the North Wind.—East of the sun and west of the moon.—An evening in the squire's kitchen.—Hans who made the princess laugh.

Austin, Mrs Mary (Hunter). j 398 A93

The basket woman; a book of fanciful tales for children. 1910. Houghton.

Some of the stories are, The stream that ran away.—The coyote-spirit and the weaving woman.—The cheerful glacier.—The merry-go-round.—The Christmas tree.—The fire bringer.—The crooked fir.—Mahala Joe.

Bay, Jens Christian, comp. j 398 B33

Danish fairy & folk tales; a collection of popular stories and fairy tales, from the Danish of Svend Grundtvig [and others]. 1899. Harper.

How a "haughty princess of England" became queen of Denmark; the story of Hans Humdrum who served a troll, of Peter Humbug and the white cat, of the little tailor who was brave against his will, and many other curious tales of Danish kings and queens, princes and beggars, soldiers, fairies and trolls.

Bruinier, Johannes Weijardus. 398 B83

Das deutsche volkslied; über wesen und werden des deutschen volksgesanges. 1911. (Aus natur und geisteswelt.)

Couch, Sir Arthur Thomas Quiller, *ed.*

qj 398 C83

The sleeping beauty, and other fairy tales from the old French; re-told by Sir Arthur Quiller-Couch, illustrated by Edmund Dulac. [1910.] Hodder.

Other tales: Blue Beard.—Cinderella.—Beauty and the beast.

"Beauty and the beast" was originally written by Madame de Villeneuve and the other three stories by Charles Perrault.

Coussens, Penrhyn Wingfield, *comp.*

j 398 C84

Child's book of stories, with pictures by J. W. Smith. 1911. Duffield.

Favorite fairy tales with 10 full-page illustrations in color.

Djurklou, Nils Gabriel, *friherre.*

j 398 D64

Fairy tales from the Swedish; authorised translation by H. L. Brækstad. 1901. Stokes.

Dole, Nathan Haskell, *tr.*

j 398 D69

The white duckling, and other stories. 1913. Crowell.

Other stories: The little sister and little brother.—The Bright-hawk's feather.—Ivan and the gray wolf.—Vasilisa the beauty.—Marya Morevna.—The frog-queen.

Grierson, Elizabeth Wilson.

j 398 G89b

Book of Celtic stories, with illustrations in colour from drawings by Allan Stewart. 1913. Black.

Partial contents: The fate of the children of Lir.—The battle of the birds.—Kenneth the Yellow.—The son of the strong man of the wood.—The story of Finn, the son of Cumhal.—The last of the Fení; or, The man who went to the land of youth.

Grierson, Elizabeth Wilson.

j 398 G89s

Scottish fairy book. 1910. Stokes.

Strange, weird tales of the wee, wee peerie folk, of bogies, witches, brownies and kelpies and of mermen and beautiful sea maidens who live in a mysterious region far under the ocean. Many pictures.

Griffis, William Elliot.

j 398 G894u

The unmannerly tiger, and other Korean tales. 1911. Crowell.

Nineteen fairy and folk tales. They tell of Prince Sandalwood, the Father of Korea, of Tokgabi, the mischievous sprite, of the people who wore crockery hats and of the magpies that built the flying bridge.

Grimm, Jakob Ludwig, & **Grimm**, W. K.

398 G91b

Baśnie dla dzieci i młodzieży. 1909.

Grimm, Jakob Ludwig, & **Grimm**, W. K.

j 398 G91fd

Fairy tales, with pictures by Hope Dunlap. 1913. Rand.

Full-page illustrations in color and in black and white.

Grimm, Jakob Ludwig, & **Grimm**, W. K.

j 398 G91hw

House in the wood, and other old fairy stories, with drawings by L. L. Brooke. [1910.] Warne.

Other fairy stories: The brave little tailor.—The goblin and the grocer.—The Bremen town musicians.—The table, the ass and the cudgel.—The Jew in the bramble bush.—The vagabonds.—Red Jacket; or, The nose tree.—The straw, the coal and the bean.—Snow-white and Rose-red.

Grimm, Jakob Ludwig, & **Grimm**, W. K.

j 398 G91s

Stories from Grimm, told to the children by Amy Steedman, with pictures by Harry Rowntree. [1908?] Jack. (Told to the children series.)

Contents: Rumpelstiltskin.—The wolf and the seven kids.—The frog prince.—Rapunzel.—Snowdrop and the seven dwarfs.—The wandering minstrels.—The golden bird.—The industrious goblins.—Hansel and Grethel.—Snow-white and Rose-red.

Johnson, Clifton, ed. j 398 J35b
Birch-tree fairy book; favorite fairy tales. 1906. Little.

Johnson, Clifton, ed. j 398 J35
Oak-tree fairy book; favorite fairy tales. 1911. Little.

Judson, Katharine Berry, ed. 398 J49my
Myths and legends of the Mississippi valley and the Great lakes.
1914. McClurg.

"Compiled from the works of Schoolcraft, A. E. Jenks, James Mooney, and George Catlin... Some of the stories are specially interesting in connection with the stories of Hiawatha and 'Brer Rabbit.' Illustrations are from reports of the Bureau of American Ethnology." *A. L. A. booklist, 1914.*

Lansing, Marion Florence, comp. j 398 L28r
Rhymes and stories. 1907. Ginn. (Open road library of juvenile literature.)

Contains Mother Goose rhymes and some of the children's favorite nonsense stories and nursery tales, such as Three billy goats gruff.—Chicken Little.—The three bears.—The little red hen.—The pancake.

Mabie, Hamilton Wright, ed. j 398 M113f
Fairy tales every child should know; a selection of the best fairy tales of all times and of all authors. 1913. Doubleday.

Contents: One Eye, Two Eyes, Three Eyes.—The magic mirror.—The enchanted stag.—Hansel and Grethel.—The story of Aladdin; or, The wonderful lamp.—The history of Ali Baba and of the forty robbers killed by one slave.—The second voyage of Sindbad the sailor.—The white cat.—The golden goose.—The twelve brothers.—The fair one with the golden locks.—Tom Thumb.—Blue Beard.—Cinderella; or, The little glass slipper.—Puss in boots.—The sleeping beauty in the wood.—Jack and the beanstalk.—Jack the Giant Killer.—Little Red Riding Hood.—The three bears.—The princess on the pea.—The ugly duckling.—The light princess.—Beauty and the beast.

Macdonell, Anne. j 398 M14
Italian fairy book; illustrations by M. M. Williams. [1911.] Stokes.

Contains the story of Vardiello the simpleton, of Lionbruno who was carried away to fairyland, and of the seven gifted brothers who delivered the princess Joyosa from a powerful dragon; also many other tales of poor lads who went out into the world to seek their fortune, of werewolves, fairies and magicians.

Naomi, Aunt, pseud. j 398 N12
Jewish fairy tales and fables. [1908.] Bloch.

Contents: The slave who became a king.—How Reynard fooled Bruin.—The ragged pedlar.—The enchanted donkey.—The greedy fox.—The man who was an hundred years young.—The king, the queen and the bee.—Honeim's magic shoes.—Saved by a rose.—The fool of Athina.—Sly fox and sly fish.—The princess and the rabbi.—Yussuf's three punishments.—King Tongue.

Most of the stories are adapted from the Talmud and the Midrash.

Norton, Charles Eliot, ed. j 398 N46s2
The story teller. 1910. Hall & Locke. (Young folks' library, series 3, v.1.)

Contents: The story of the three bears.—Beauty and the beast.—Diamonds and toads.—Blanche and Rosalinda.—The white cat.—Tom Thumb.—Cinderella.—Jack and the bean stalk.—The three wishes.—The children in the wood.—The history of little Jack.—The fair one with the golden locks.—Whittington and his cat.—Seven champions of Christendom.—The fisherman and the genie.—The yellow dwarf.—Felicia and the pot of pinks.—Prince Mu and the princess Zaza.—Prince Wee and the princess Sabel.—The princess on the glass hill.—The brave little tailor.—Aladdin and the wonderful lamp.—Go I know not whither.—The story of Gore-Gorinskoye.—The sage damsel.—The prophetic dream.—The flying ship.—The goblin-no-bigger.—The story of Ivan.

Ozaki, Yēi Theodora (Ozaki), comp. j 398 O36

Japanese fairy book. [1906.] Dutton.

Fairy stories from far Japan told by a Japanese and illustrated by a Japanese artist. Among them are, My Lord Bag of Rice.—The tongue-cut sparrow.—The bamboo-cutter and the moon-child.—The mirror of Matsuyama.—Story of the old man who made withered trees to flower.—Momotaro, or the story of the son of a peach.

Perrault, Charles. j 398 P43f

Fairy tales, with coloured illustrations by Charles Robinson. [1913.] Dent. (Tales for children from many lands.)

Contents: The sleeping beauty.—Little Red Riding-hood.—Blue Beard.—Master cat; or, Puss in boots.—The fairies.—Cinderella; or, The little glass slipper.—Riquet with the tuft.—Little Thumbling.—Beauty and the beast.—The benevolent frog.—Princess Rosette.

The last three tales are not by Perrault.

Tappan, Eva March, tr. j 398 T19g

The golden goose, and other fairy tales; tr. from the Swedish. 1905. Houghton.

Other fairy tales: The giant's house with the roof of sausages.—The simple-minded giant.—The stolen princess.—The black box and the red.—The little wild man.

Thomas, William Jenkyn, comp. j 398 T37

Welsh fairy book. [1907.] Stokes.

Many stories of the "fair family" of Wales, of changeling children and hidden treasure, of magic and enchantment.

Thorne-Thomsen, Mrs Gudrun, ed. j 398 T411

East o' the sun and west o' the moon, with other Norwegian folk tales, retold. 1912. Row.

Some of the best and most popular Norwegian fairy tales, including Three billy goats gruff.—Boots and his brothers.—The lad who went to the North Wind.—The pancake.—Why the sea is salt.—The squire's bride.—The princess on the glass hill.—The husband who was to mind the house.

All these stories have been told to children by the editor many times and retain much of the original folk-lore language and the conversational style of the teller of tales.

Tregarthen, Enys. j 398 T715

North Cornwall fairies and legends, with introduction by Howard Fox. [1906.] Gardner.

Contents: The adventures of a Piskey in search of his laugh.—The legend of the Padstow Doombar.—The little cake-bird.—The impounded crows.—The Piskeys' revenge.—The old sky woman.—Reefy, reefy rum.—The little horses and horsemen of Padstow.—How Jan Brewer was Piskey-laden.—The small people's fair.—The Piskeys who did Aunt Betsy's work.—The Piskeys who carried their beds.—The fairy whirlwind.

Legends of the fairy horsemen and of the Piskey people who in other days danced in their rings on the moors of Cornwall and crept through the keyhole of moorland cottages when the children were asleep to order their dreams.

Wheeler, Post, ed. j 398 W61

Russian wonder tales, with a foreword on the Russian skazki, containing 12 of the famous Bilibin illustrations in color. 1912. Century.

Contents: Tzar Saltan.—Wassilissa the Beautiful.—The little humpbacked horse.—Tzarevich Ivan, the glowing bird and the grey wolf.—Maria Morevna.—Martin the peasant's son.—The feather of Finist the Falcon.—The frog-tzarevna.—Schmat-Razum.—Little Bear's Son.—Wassily the Unlucky.—Tzarevich Petr and the wizard.

Whitehorn, Alan Leslie. j 398 W64

Wonder tales of old Japan; illustrated by Shozan Obata. 1912. Stokes.

Popular folk tales, including Momotaro, or the little peach child.—A wonderful tea-kettle.—The mirror of Matsuyama.—Urashima the fisher boy.—The tongue-cut sparrow.—The old man who made withered trees to blossom. Interesting colored pictures by a Japanese artist.

Wiggin, Mrs Kate Douglas, *afterward* Mrs Riggs, & Smith, N. A. *ed.* j 398 W68f

The fairy ring. 1911. Doubleday.

"Once upon a time" stories from the enchanted land of faery.

"Let us climb the gilded linden tree and capture the Golden Bird. Let us plunge into the heart of the Briar Wood where the Rose o' the World lies sleeping...and mount the back of the North Wind and search for the castle that lies East o' the Sun and West o' the Moon." *Preface.*

Indian folk tales

Judson, Katharine Berry, *ed.* 398 J49m

Myths and legends of the great plains. 1913. McClurg.

Authorities, p.8.

"Over sixty myths and legends, some in verse, compiled from the annual reports of the Bureau of American Ethnology, the publications of the United States Geographical Survey, and from the works of other ethnologists. They are told in the abrupt style of the Indian...Illustrated by many Indian drawings." *A. L. A. booklist, 1914.*

Lummis, Charles Fletcher. j 398.097 L97

Pueblo Indian folk-stories. 1910. Century.

New edition of "Man who married the moon, and other stories."

The author lived for five years among the Pueblo Indians of New Mexico, learning their language and customs, and in the long winter evenings listening to the tales the old men tell to the boys gathered about them—wonderful stories of The antelope boy.—The ants that pushed on the sky.—The man who wouldn't keep Sunday.—The town of the snake-girls, etc.

Nixon, Mary F. *afterward* Mrs Roulet. j 398.097 N37

Indian folk tales. 1911. Amer. Book Co. (Eclectic readings.)

Contains The star wife.—The trail of the Far-off lodge.—The gift of Mondamin.—The wonderful deeds of Manabozho.—The magic porcupine quills.—The moon maiden, and other legends and traditions of the American Indians.

Schultz, James Willard. 398.097 S38

Blackfeet tales of Glacier national park. 1916. Houghton.

Author, an adopted member of the Blackfeet tribe, returned to the Indians for a two months' visit in 1915, and records the legends told to him in the evening around the lodge fires.

Legends

Baldwin, James. j 398.2 B19

The sampo; hero adventures from the Finnish Kalevala. 1912. Scribner.

Far away in the Frozen Land in the long ago time a master wizard forged the wondrous sampo or mill of fortune, which ground out all sorts of treasures and gave wealth and power to its owner. This story tells of the making of this magic mill with its pictured lid of rainbow colors and of the adventures of the heroes who sought to gain possession of it.

Canton, William. j 398.2 C17

Child's book of warriors; illustrated by Herbert Cole. [1912?] Dent.

Contents: The rock of Narsinga.—Balt the Attacot.—How they saved Nisibis.—Hervé and Christina.—Sword and cross.—The soul of Justinian.—The guardians of Rome.—The two Charlemagnes.—God's gleeman.—In the days of Athelney.—Children of kings.—Olaf the Viking.—Olaf in England.—At strife with the gods.—The last sea-fight.—The Jorsala pilgrims.—"I saw three ships a-sailing."

Irving, Washington.

j 398.2 I28

Tales from the Alhambra; adapted by Josephine Brower, with illustrations in colour by C. E. Brock. 1910. Houghton.

Contents: Legend of the Arabian astrologer.—Legend of Prince Ahmed al Kamel.—Legend of the Moor's legacy.—Legend of the three beautiful princesses.—Legend of the Rose of the Alhambra.—Legend of the two discreet statues.

Lansing, Marion Florence.

j 398.2 L28

Page, esquire and knight; a book of chivalry. 1910. Ginn. (Open road library of juvenile literature.)

Contents: Tales of King Arthur's court.—Tales of Charlemagne and his peers.—Godfrey, a knight of the crusades.—The order of St. George.—Chevalier Bayard.—Songs of chivalry.

"Notes," p.179-182.

Mabie, Hamilton Wright, ed.

j 398.2 M11

Legends that every child should know; a selection of the great legends of all times for young people. 1907. Doubleday.

Contents: Hiawatha.—Beowulf.—Childe Horn.—Sir Galahad.—Rustem and Sohrab.—The seven sleepers of Ephesus.—Guy of Warwick.—Chevy Chase.—The fate of the children of Iir.—The beleaguered city.—Prester John.—The wandering Jew.—King Robert of Sicily.—The life of the Beato Torello da Poppi.—The Lorelei.—The passing of Arthur.—Rip Van Winkle.—The gray champion.—The legend of Sleepy Hollow.

Peers, Mrs Charles Reed.

j 398.2 P36

Saints in story, containing illustrations from pictures by Carpaccio, Giotto and Sassetta and from illuminated manuscripts. 1910. Black.

Contents: St. Jerome and the lion.—St. George and the dragon.—St. Francis preaches to the birds and tames the wolf of Gubbio.—St. Margaret and the dragon.—St. Francis and the soldan.—The first hallowing of Westminster abbey.—Legend of the rebuilding of Westminster abbey.—Legend of Edward the Confessor and the pilgrim.—Legend of Wulfstan, bishop of Worcester.

Pollard, Joyce.

j 398.2 P76

Stories from old English romance. 1912. Stokes.

Contents: Beowulf and Grendel.—Beowulf and the fire-dragon.—The story of Cædmon.—The fight at Maldon.—Vortiger and Constance.—Vortiger and Hengest.—The return of Aurelius.—Havelok the Dane; how Havelok came to marry Goldborough.—Havelok the Dane; how Havelok became king of Denmark and of England.—King Horn.—Guy of Warwick; how Guy won the hand of Felice the Beautiful.—Guy of Warwick; how Guy went on a pilgrimage.—The tale of Gamelyn.—The vision of William concerning the field full of folk.—The vision of William concerning Piers the Ploughman.—The travels of Sir John Mandeville; of the great Chan of Cathay.—The travels of Sir John Mandeville; of the governance of the great Chan's court.—The story of Mak.—London Lickpenny.—Robin Hood and Sir Richard-at-the-lee.—Robin Hood and King Edward.—The story of Sir Balin; how Balin took King Rience of North Wales.—The story of Sir Balin; how Balin smote the dolorous stroke.—Sir Gareth of Orkney.

Rolleston, Thomas William Hazen.

j 398.2 R64

The high deeds of Finn, and other bardic romances of ancient Ireland, with an introduction by S. A. Brooke. [1910.] Crowell.

Here may one read how Finn came to the captaincy of the Fianna of Erin, of his chief men and of the renowned chase of the Gilla Daear. Here also is related the strange tale of Oisín, the son of Finn, who saw the wonders of the Land of youth, the story of Cormac the Chariot-child and his adventures in fairyland, and other tales of Irish heroes. Sixteen illustrations in color by Stephen Reid.

Steedman, Amy.

j 398.2 S81

In God's garden; stories of the saints for little children, with reproductions from Italian masterpieces. [1906.] Jacobs.

Contents: Saint Ursula.—Saint Benedict.—Saint Christopher.—Saint Catherine of Siena.—Saint Augustine of Hippo.—Saint Augustine of Canterbury.—Saint Cecilia.—

Steedman, Amy—*continued*.

j 398.2 S81

Saint Giles.—Saint Nicholas.—Saint Faith.—Saint Cosmo and Saint Damian.—Saint Martin.—Saint George.—Saint Francis of Assisi.

Sixteen color plates.

Steedman, Amy.

j 398.2 S81o

Our island saints; stories for children. 1912. Putnam.

Contents: S. Alban.—S. Augustine of Canterbury.—S. Kentigern.—S. Patrick.—S. David.—S. Molios.—S. Bridget.—S. Cuthbert.—S. Edward the Confessor.—S. Columba.—S. Margaret of Scotland.—S. Hugh of Lincoln.

With colored pictures.

Wilmot-Buxton, Ethel M.

j 398.2 W76

Old Celtic tales, retold. Crowell. (Crowell's all-time series.)

Contents: The children of Lir.—The quest of the seven champions.—The lady of the fountain.—The story of King Lud.—The tale of Taliesin.—Olger the Dane.—The story of King Fortager.

Robin Hood

Carnegie Library of Pittsburgh.

r 016.398 C21

Stories from the ballads of Robin Hood, with lists of other ballads to tell and to read aloud; outlines for story-telling to children over nine years of age. 1914. Pittsburgh.

"Books referred to in the outlines and lists," p.32-34.

Pyle, Howard.

j 398.22 P99s

Some merry adventures of Robin Hood, of great renown in Nottinghamshire. 1902. Scribner.

Adventures selected by the author from his "Merry adventures of Robin Hood." Many incidents are omitted and certain parts rewritten.

Rhead, Louis John.

j 398.22 R38

Bold Robin Hood and his outlaw band; their exploits in Sherwood forest; penned and pictured by Louis Rhead. 1912. Harper.

Retold from the English ballads. Contains a map of the royal hunting forests where Robin Hood lived and full-page pictures of Robin, Little John, Master Will Scarlet, Friar Tuck, Ye tinker, Ye sheriff of Nottingham, Ye good queen Eleanor and other characters of the ballads. Author was born in the same country as Robin Hood and spent much of his early life roaming about what still remains of Sherwood and Needwood forests.

King Arthur cycle

Clay, Beatrice.

j 398.25 C54

Stories of King Arthur and the Round Table. [1911.] Dent.

Contents: The coming of Arthur.—Sir Launcelot.—Sir Tristram.—King Arthur's nephews.—Sir Geraint.—The lady of the fountain.—The adventures of Sir Peredur.—The Holy Grail.—The fair maid of Astolat.—Queen Guenevere.—The morte dArthur.

Malory, Sir Thomas.

j 398.25 M29k

King Arthur and his knights; an abridgment of *Le morte Darthur*; ed. by H. B. Lathrop. 1911. Baker.

Contents: The glories of Arthur.—Balin and Balan.—Sir Launcelot.—Sir Gareth.—The treasons of King Mark.—La Cote Mal Taile.—The Holy Grail.—The rescue of Guenever.—Elaine of Astolat.—The death of Arthur.

Nibelungenlied

Nibelungenlied.

j 398.27 N31n

The Nibelungs; tr. from the German of Ferdinand Schmidt by G. P. Upton. 1911. McClurg. (Life stories for young people.)

Hero tale of Siegfried, who won the Nibelung hoard.

Nursery rhymes

Jerrold, Walter, ed. qj 398.8 J28

The big book of nursery rhymes. [1911.] Blackie.

Many pictures by Charles Robinson.

Littlewood, Letty, & Littlewood, Frank, ed. j 398.8 L74

. Our nursery rhyme book; illustrated by H. C. Appleton. [1912.] Estes.

Rhymes chosen by two little children. Full-page illustrations in color and others in black and white.

Mother Goose melodies. qj 398.8 M93mr

Mother Goose; arranged and ed. by E. O. Grover, illustrated by Frederick Richardson. 1915. Volland.

Large volume with colored pictures. Selection of rhymes is based upon the original collection first published by John Newbery about 1765 and the edition published in Boston in 1833 by Munroe and Francis, called "The only true Mother Goose melodies."

Mother Goose melodies. j 398.8 M93oh

Old Mother Goose nursery rhymes; illustrated by E. S. Hardy. [1910.] Nister. (Children's classics.)

Mother Goose melodies. j 398.8 M93ol

The old nursery rhymes; illustrated by Arthur Rackham. 1913. Century.

With many black-and-white drawings and 12 full-page colored plates.

j 398.8 N52

Nursie's little rhyme book; illustrated by H. W. Le Mair. McKay.

Twelve nursery rhymes, illustrated in color. Also included, with music by Alfred Moffat, in "Our old nursery rhymes."

Proverbs

Marvin, Dwight Edwards, comp. r 398.9 M43

Curiosities in proverbs; a collection of unusual adages, maxims, aphorisms, phrases and other popular dicta from many lands, classified and arranged, with annotations. 1916. Putnam.

"Authorities consulted," p.7-11.

Fables

Æsop. j 398.91 A25fj

Fables; a new translation by V. S. Vernon Jones, with an introduction by G. K. Chesterton and illustrations by Arthur Rackham. 1912. Heinemann.

Thirteen color plates and other pictures in black and white.

Æsop. j 398.91 A25fd

Fables; illustrated by E. J. Detmold. Hodder.

Contains 23 colored plates.

Bidpāi. j 398.91 B47

The tortoise and the geese, and other fables; retold by M. B. Dutton and illustrated by E. B. Smith. 1908. Houghton.

According to tradition Bidpāi was a sage of India, who lived about 300 B. C. All his wisdom he ingeniously inculcated in his fables, 34 of which are here retold. Twelve attractive illustrations in black and white.

- Davis, Mary Hayes, & Chow-Leung.** j 398.91 D32
Chinese fables and folk stories. 1908. Amer. Book Co.
Stories familiar in the home and school life of the children of China. Pen-and-ink drawings in Chinese style.
- Jātakas.** j 398.91 J21
Jataka tales; re-told by E. C. Babbitt. 1912. Century.
East Indian fables. They tell of the turtle who couldn't stop talking, the strong ox who won a forfeit, the foolish timid rabbit, the elephant Girly-face, the king of the banyan deer, and other fabled beasts. Illustrated with silhouettes.
- Jerrold, Walter, ed.** qj 398.91 J28
Big book of fables; illustrated by Charles Robinson. 1912. Caldwell.
- Kent, Roland Grubb, & Hall, I. F. comp.** j 398.91 K19
Stories from the Far East. 1913. Merrill. (Merrill's story books.)
Book of fables. They tell of the unthinking Brahman who lost his goat, of the mice who freed the elephants, of the clever hare who outwitted the proud lion, of the meddlesome monkey, the stupid tortoise and other animals.
- La Fontaine, Jean de.** j 398.91 L14
Original fables; rendered into English prose by F. C. Tilney. [1913.]
Dent. (Tales for children from many lands.)
Colored pictures.
- Rāmaswāmi Rāju, P. V. ed.** j 398.91 R17
Indian fables. 1902. Dutton.
More than 100 Hindu fables, some from East Indian literature, but many of them collected from the people by the author, who is a Hindu. Among them are, The fawn and the little tiger.—The four owls.—The camel and the pig.—The dove and the grasshopper.—The fools and the drum.—The smithy.—The owl and his school.—The fox and his shadow.—The gentleman and the sedan-bearers.—The sage and the children.
- Wiggin, Mrs Kate Douglas, afterward Mrs Riggs, & Smith, N. A. ed.** j 398.91 W68
The talking beasts; a book of fable wisdom. 1911. Doubleday.
Contents: Fables of Æsop (Greek).—Fables of Bidpai (Indian).—Fables from the Hitopadesa (Sanskrit).—Fables from P. V. Ramaswami Raju (Indian).—Malayan fables.—Moorish fables.—African fables.—Fables from Krilof (Russian).—Fables from the Chinese.—Fables of La Fontaine (French).—Fables from the Spanish of Carlos Yriarte.—Fables of Gay, Cowper and others (English).

399 Arms and armor

- Dean, Bashford.** qr 399 D34
Collection of arms and armor of Rutherford Stuyvesant, 1843-1909.
1914. Privately printed.

Philology

400 General works

Gehman, Henry Snyder. r 404 G27

Interpreters of foreign languages among the ancients; a study based on Greek and Latin sources. 1914.

"Bibliography," p.7.

Thesis for Ph. D., University of Pennsylvania.

Latham, Robert Gordon. 404 L35

Opuscula; essays chiefly philological and ethnographical. 1860. Williams.

Modern Language Association of America. r 405 M76

Publications, 1884/85-1888/89. v.1-4. 1886-89.

v.1-3 published annually.

v.1, 1884/85, title reads "Transactions."

v.2-3, 1886-87, title reads "Transactions and proceedings."

For v.8-date see preceding catalogue, v.4.

qr 405 M7624

Modern language quarterly, July 1897-1904. v.1-7. 1897-1904.

v.2, March 1898-Aug. 1899, title reads "Modern quarterly of language and literature."

No more published.

Continued by "Modern language review."

Each volume complete in 3 numbers, except v.1, which consists of 2 numbers, and v.2, of 5 numbers.

r 405 M7623

Modern language review; a quarterly journal devoted to the study of mediæval and modern literature and philology, Oct. 1905-Oct. 1911. v.1-6. 1905-11.

Northup, Clark Sutherland. o16.4 N45

Present bibliographical status of modern philology, with A summary of letters from representatives of modern language studies, by W. N. C. Carlton, preceded by A survey of periodical bibliography, by J. C. Bay. 1911. University of Chicago Press.

The same. 1910. (In Bibliographical Society of America. Proceedings and papers, v.5, p.61-94.).....qr o10 B4733 v.5

407 Study and teaching

Brown, Rollo Walter. 407 B79

How the French boy learns to write; a study in the teaching of the mother tongue. 1915. Harvard University Press.

"Bibliography," p.243-245.

"Professor Brown's purpose was to study the French teaching for the light it might throw on the teaching of English in America...There could be few books more funda-

Brown, Rollo Walter—*continued*.

407 B79

mentally useful to the American teacher than this brilliant exposition of the teaching of a mother tongue." *New republic*, 1916.

"Instead of giving merely the framework of programmes and courses, with occasional comment, I have sought to reveal the everyday practice of teachers—the practice, that after all, shapes the pupil's habits of mind—and to suggest the point of view, the moving spirit, of the nation's educational life." *Chapter 1*.

Jespersen, Jens Otto Harry.

407 J29

How to teach a foreign language; tr. from the Danish original by Sophia Yhlen-Olsen Bertelsen. 1908. Sonnenschein.

"Select list of books," p.193-194.

By a Danish philologist who is (1912) one of the most eminent advocates of the "natural," "reform" or "direct" method of modern language instruction. Contains an able defense of the method and some excellent pedagogical suggestions.

408.9 Universal languages

Ido. Esperanto

Beaufront, Louis de, & Couturat, Louis, *comp.*

408.9 B34

International-English dictionary (sistemo Ido), with a preface by Otto Jespersen. 1908. Pitman.

Foster, Edward Powell.

r 408.9 F81

Ru ro outline of universal language. 1913. World-speech Press.

Hugon, P. D.

408.9 H89

International phrase-book (sistemo Ido); conversations, correspondence, business terms, metric system. 1908. Pitman.

Hugon, P. D.

408.9 H89p

Practical grammar and exercises (sistemo Ido). 1908. Pitman.

Long, Bernard.

408.9 L82

The passing of Babel; or, Esperanto and its place in modern life. 1912. British Esperanto Assoc.

The same.....r 408.9 L82

Marx, Karl, & Engels, Friedrich.

408.9 M43

Manifesto of the Communist party; authorized English translation ed. and annotated by Frederick Engels. 1908. Kerr. (Standard socialist series.)

Esperanto and English text.

Pennsylvania—Commissioner to the Seventh International Congress of Esperanto.

r 408.9 P39

Report of the commissioner to the congress held at Antwerp, Aug. 1911. 1911.

Pennsylvania Esperanto Association.

r 408.9 P399

Constitution and by-laws of the Pennsylvania Esperanto Association, chartered by the Esperanto Association of North America. [Pittsburgh.]

With this are bound "Esperanto herald," no.3, 15, 17, Jan. 1911, March, May 1912, and "Esperanto in 1911."

- Privat, Edmond.** 408.9 Pg6h
 Historio de la lingvo esperanto. v.1. 1912.
 v.1. 1887-1900.
- r 408.9 Pg6
Progreso; oficiala organo di l'Uniono di l'amiki di la lingvo internaciona, konsakrata ad la propagado, libera diskutado e konstanta perfektigado di la lingvo internaciona [monthly], Marto 1910-Januaro 1914. v.3-6. 1910-14.
- Reed, Mrs Ivy (Kellerman).** 408.9 R28
 Practical grammar of the international language (Esperanto). 1915.
 Amer. School of Esperanto.
- Studi pri la organizo de Esperanto.** 1913. r 408.9 S93
 Selections from "Franca Esperantisto," 1911-12.
 Text in French and Esperanto.

410 Comparative philology

- Amato, G. d'.** q 410 A48
 AVM (aum); principio fondamentale originario delle arti umane. 1913.
- Skeat, Walter William.** 412 S62
 Science of etymology. 1912. Clarendon Press.
 "List of books most frequently consulted," p.11.
 Intended to furnish the ordinary reader with such information as is necessary for intelligent use of an etymological dictionary. Begins by explaining the methods of etymological research in general and proceeds with an account of the comparative phonology of each of the main branches of the Indo-Germanic family of languages, with abundance of well chosen, illustrative examples. Contains much valuable information not elsewhere accessible in popular form.

413 Dictionaries. 415 Grammar

- Schlomann, Alfred, ed.** r 413.D38
 Illustrated technical dictionary in six languages: English, German, French, Russian, Italian, Spanish. v.12. 1915.
 v.12. Hydraulics, aerology, refrigeration.
 German title-page reads "Illustrierte technische wörterbücher."
 For v.1-11 see preceding catalogue, v.6, under Deinhardt, Kurt, & Schlomann, Alfred, ed.
- Wershoven, Franz Josef, comp.** r 413 W54
 Vocabulaire technique, français-allemand et allemand-français; technisches vokabular für höhere lehranstalten und zum selbststudium für studierende, lehrer, techniker, industrielle. Ed.2, enl. 1897.
 Bibliography, p.4.
 Brief lists of terms used in physics, chemistry and metallurgy, and in mechanical, railway and bridge engineering.
- Bopp, Franz.** 415 B63
 Comparative grammar of the Sanskrit, Zend, Greek, Latin, Lithuanian, Gothic, German and Slavonic languages; tr. from the German by E. B. Eastwick. 3v. 1885. Williams.

Brugmann, Karl.

r 415 B82

Kurze vergleichende grammatik der indogermanischen sprachen; auf grund des fünfbändigen "Grundrisses der vergleichenden grammatik der indogermanischen sprachen von K. Brugmann und B. Delbrück" verfasst. 1904.

Brugmann, Karl, & Delbrück, Berthold.

415 B82g

Grundriss der vergleichenden grammatik der indogermanischen sprachen. 5v. in 7. 1893-1911.

v.1, pt.1-2. Vergleichende laut-, stammbildungs- und flexionslehre der indogermanischen sprachen, von Karl Brugmann.

v.2, pt.1-2. Vergleichende laut-, stammbildungs- und flexionslehre nebst lehre vom gebrauch der wortformen der indogermanischen sprachen, von Karl Brugmann.

v.3-5. Vergleichende syntax der indogermanischen sprachen, von Berthold Delbrück.

References at the beginning of each volume.

Magnusson, Peter Magnus.

r 415 M25

Some applications of logical and psychological principles to grammar. 1893. University of Minnesota.

Thesis for Ph. D., University of Minnesota.

417 Paleography

Ferguson, William Duncan.

r 417 F38

Legal and governmental terms common to the Macedonian Greek inscriptions and the New testament, with a complete index of the Macedonian inscriptions. 1913. University of Chicago.

"Bibliography," p.9.

Thesis for Ph. D., University of Chicago.

Reprinted from "Historical and linguistic studies," 2d ser., v.2, pt.3.

Wright, Andrew.

qr 417 W93

Court-hand restored; or, The student's assistant in reading old deeds, charters, records, etc.; describing the old law hands, with their contractions and abbreviations, with an appendix containing the ancient names of places in Great Britain and Ireland, an alphabetical table of ancient surnames and a glossary of Latin words found in the works of the most eminent lawyers and other ancient writings, but not in any modern dictionaries; corrected and enlarged by C. T. Martin. 1912. Stevens.

420 English language

r 420.7 E64

English journal [monthly], 1912-date. v.1-date. 1912-date.

No numbers published in July and August.

Official organ of the National Council of Teachers of English.

Smith, Logan Pearsall.

420.9 S65

The English language. 1912. Holt. (Home university library of modern knowledge.)

"Bibliography," p.253-254.

A study of words rather than a history of the language.

"The study of words is...one of inexhaustible interest; and especially is this the case when it is treated from the standpoint, not of the philologist, but of the man of

Smith, Logan Pearsall—*continued*.

420.9 S65

letters, the historian, and the psychologist. Such is the characteristic quality of Mr. Pearsall Smith's exhilarating, if necessarily somewhat superficial, survey of his subject." *Spectator*, 1912.

421 Orthography

Spelling. Pronunciation

r 421.4 P64

Pioneer of simplified speling [monthly], March 1912–date. v.1–date. 1912–date.

None issued July–Aug.

Rippmann, Walter, & Archer, William.

421.4 R49

Proposals for a simplified spelling of the English language. 1912. Simplified Spelling Soc.

Simplified Spelling Board.

r 421.4 S61

Circular: no.26. 1913.

For no.1–25 see preceding catalogue, v.4, 6.

Simplified Spelling Society, London.

r 421.4 S6122f

Ferst reeder in simplifyd speling. 1915.

Simplified Spelling Society, London.

r 421.4 S6122

[Publications], 1908–14. 1908–[14].

Pamphlets explaining and defending simplified spelling.

Simplified Spelling Society, London.

421.4 S61

Simplified spelling [an appeal to common sense. 1911?].

Vizetelly, Francis Horace, comp.

r 421.4 V35

Dictionary of simplified spelling; based on the publications of the United States bureau of education and the rules of the American Philological Association and the Simplified Spelling Board, comp. from Funk & Wagnalls New standard dictionary. 1915. Funk.

Weeks, Raymond, and others.

r 421.4 W42

N. E. A. phonetic alphabet, with a review of the Whipple experiments. 1912. New Era Printing Co.

Points out the inadequacy of Dr Whipple's recent tests of the N. E. A. phonetic alphabet, indicates the objections to the Webster key, and restates the opinions and aims of those who favor the general introduction of a simple and scientific phonetic alphabet.

Wells, Herbert George.

421.4 W49

The star. Simplified Spelling Soc.

Printed in simplified spelling.

Bridges, Robert, b. 1844.

421.5 B74

A tract on the present state of English pronunciation. 1913. Clarendon Press.

There is no one who speaks with more weight than Mr Bridges on matters of linguistic usage, and his attack on our present ways of speech must not be lightly disregarded. He advocates a reformed spelling which shall preserve as much as possible our old orthography. *Condensed from London Times*, 1913.

Phyfe, William Henry Pinkney.

r 421.5 P53t3

Eighteen thousand words often mispronounced; a complete handbook of difficulties in English pronunciation, including an unusually large number of proper names and words and phrases from foreign languages. 1914. Putnam.

422 Etymology

Blackburn, Ernest Murray.

r 422 B51

Study of words. 1911. Longmans.

Etymological dictionary. Does not aim at completeness, many common words and most uncommon ones being omitted, but selects significant words and those of interesting derivation.

Weekley, Ernest.

422 W42

Romance of words. 1912. Murray.

Interesting study in the wide field of derivation and meaning involved in our English vocabulary, past and present.

423 Dictionaries. 424 Synonyms

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v.3. Physics.

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For v.1-2 see preceding catalogue, v.6.

General works

Gibson, Charles R.

500 G36

Romance of scientific discovery; a popular and non-technical account of some of the most important discoveries in science from the earliest historical times to the present day [1913]. 1913. Lippincott.

Treats of discoveries in astronomy, physics, chemistry, botany and biology.

Rowell, Percy Elliott.

500 R79

Introduction to general science, with experiments. 1911. Macmillan.

The same.r 500 R79

Bibliography, p.22-29.

More than 200 short lessons touching on all branches of pure science, food and nutrition, sanitation and agriculture. Bibliography consists of a long list of United States department of agriculture publications and elementary books, nearly all of which are in the Carnegie Library of Pittsburgh.

Stallo, John Bernhard.

500 S78

General principles of the philosophy of nature, with an outline of some of its recent developments among the Germans, embracing the philosophical systems of Schelling and Hegel and Oken's system of nature. 1848. Chapman.

This book "was written while I was under the spell of Hegel's ontological reveries—at a time when I was barely of age and still seriously affected with the metaphysical malady which seems to be one of the unavoidable disorders of intellectual infancy." *Preface to author's Concepts and theories of modern physics, 1881.*

501 Theories. Value of science

Boutroux, Étienne Émile Marie.

501 B65

Natural law in science and philosophy; authorized translation by Fred Rothwell. 1914. Macmillan.

"His ultimate aim is to attempt to decide whether in the present state of knowledge we may consider ourselves possessed of any freedom of action or of any reality as persons. His method consists in an examination of the laws of each division of science as to their nature, their objectivity and their meaning. Proceeding on these lines he makes a short survey of the laws of logic and mathematical, mechanical, physical and chemical laws—and passing on to the realm of life, discusses the nature and meaning of the biological, psychological and sociological laws which appear to govern it." *Athenæum*, 1914.

Mach, Ernst.

501 M16

Erkenntnis und irrtum; skizzen zur psychologie der forschung. Ed.2, rev. 1906.

Gives author's views on the philosophy of science and scientific investigation. Analyzes in detail methods by which science has been advanced.

Poincaré, Jules Henri.

501 P74f

Foundations of science; authorized translation by G. B. Halsted, with an introduction by Josiah Royce. 1913. Science Press. (Science and education; ed. by J. M. Cattell.)

Contents: Science and hypothesis.—The value of science.—Science and method.

"In Poincaré the reader meets...not one who is primarily a speculative student of general problems for their own sake, but an original investigator of the highest rank in several distinct, although interrelated branches of modern research." *Introduction*.

Thomson, John Arthur.

501 T38

Introduction to science. 1911. Holt. (Home university library of modern knowledge.)

The same.....r 501 T38

"References to books," p.251-253.

Popular treatment of the nature, methods, aims and practical utility of science, and the classification and correlation of the sciences.

Westaway, F. W.

501 W56

Scientific method; its philosophy and its practice. 1912. Blackie.

Interesting book, suggestive and valuable. Somewhat indirect and discursive in treatment. Scientific methods of thought are illustrated by examples from the writings of some of the great scientists.

502 Directories

Cassino, Samuel Edson, comp.

r 502 C26

Naturalist's directory, containing names, addresses and special subjects of study of English speaking professional and amateur naturalists, in all parts of the world, 1894, 1914. 1894-1914. Privately printed.

Directory for 1894 title reads "Scientists' international directory."

For other volumes see preceding catalogue, v.1.

504 Essays. Scientific papers

Allen, Grant.

504 A42s

Science in Arcady. 1892. Routledge. (Routledge's country books.)

Contents: My islands.—Tropical education.—On the wings of the wind.—A desert fruit.—Pretty Poll.—High life.—Eight-legged friends.—Mud.—The greenwood tree.—Fish as fathers.—An English shire.—The bronze axe.—The Isle of Ruim.—A hill-top stronghold.—A persistent nationality.—Casters and Chesters.

Bölsche, Wilhelm.

504 B61

Stirb und werde! naturwissenschaftliche und kulturelle plaudereien.

1913.

Contents: Die farben der urwelt.—Moldavit.—Drei kapitel vom strahlungsdruck.—Kunkel, mein ahnherr.—Der goldene stern.—Ist gegenseitige hilfe ein grundprinzip der organischen entwicklung?—Gibt es wirklich "kunstformen in der natur?"—Zum naturschutz.—Ein altes tierbuch.—Auf den spuren des pithekanthropus.—Gibt es eine vererbung erworbener eigenschaften?—Vom heiligen Kinde!—Was macht unsere schule mit dem angeborenen talent?—Wie und warum soll man naturwissenschaft ins volk tragen?

Caldwell, Otis William, & Eikenberry, W. L.

504 C13

Elements of general science. 1914. Ginn.

Contents: The air.—Water and its uses.—Work and energy.—The earth's crust.—Life upon the earth.

"The unity which is essential to any worthy study of science is here secured by means of the logical connections between the topics which compose the course, no attempt being made to maintain the unity of any one of the different sciences from which materials are taken." *Preface.*

Presentation of elementary material drawn from the fields of physics, chemistry, geology, meteorology, botany and biology, and touching very briefly on sanitation and economics.

Chicago University.

qr 504 C43

[Theses on scientific subjects submitted to the University of Chicago. v.3-9.] 1901-15.

For v.1 see preceding catalogue, v.6.

Helmholtz, Hermann Ludwig Ferdinand von.

504 H42po

Populäre vorträge; selected and ed. with notes and vocabulary by D. B. Shumway. 1909. Heath. (Heath's modern language series.)

Hunt, Robert.

r 504 H93

Poetry of science; or, Studies of the physical phenomena of nature. 1850. Gould.

Contents: General condition of matter.—Motion.—Gravitation.—Molecular forces.—Crystallogenic forces.—Heat, solar and terrestrial.—Light.—Actinism; chemical radiations.—Electricity.—Magnetism.—Chemical forces.—Chemical phenomena.—Time; geological phenomena.—Phenomena of vegetable life.—Phenomena of animal life.—General conclusions.

"Notes," p.319-383.

Lankester, Sir Edwin Ray.

504 L26d

Diversions of a naturalist. Ed.2. [1915.] Methuen.

Contents: On a Norwegian fiord.—Nature-reserves.—Far from the madding crowd.—The great grey seal.—The grouse and other birds.—The sand and pebbles of the seashore.—The constituents of a seabeach.—Quicksands and fire-stones.—Amber.—Sea-worms and sea-anemones.—Coral-makers and jelly-fish.—Shrimps, crabs and barnacles.—Barnacles and other crustaceans.—The history of the barnacle and the goose.—More as to the barnacle and the goose.—Sea-shells on the seashore.—Sand-hoppers.—A Swiss interlude.—Science and dancing.—Courtship.—Courtship in animals and man.—Courtship and display.—Courtship, instinct and reason.—Daddy-long-legs.—The moth and the candle.—From ape to man.—The skeleton of apes and of man.—The brain of apes and of man.—The mind of apes and of man.—The missing link.—The supply of pure milk.—Christmas trees and other pine trees.—The lymph and the lymphatic system.—The blood and its circulation.—Fish and fast days.—Science and the unknown.—Divination and palmistry.—Toads found living in stone.—The divining-rod.—Birth-marks and telephony.—How to promote scientific discovery by money.

Michigan University.

qr 504 M66

[Theses on scientific subjects. v.1.] 1912.

Pennsylvania University.

qr 504 P39

[Theses on scientific subjects. v.1.] 1911-14.

508 Collected works

Huygens, Christiaan.

qr 508 H98

Œuvres complètes; publiées par la Société Hollandaise des Sciences.

v. I-12. 1888-1910.

v. I-10. Correspondence, 1638-95.

v. II. Travaux mathématiques, 1645-51.

v. 12. Travaux de mathématiques pures, 1652-56.

Huygens was a noted Dutch mathematician, physicist, mechanician and astronomer. It was he who first definitely established the wave theory of light.

509 History

Candolle, Alphonse de.

r 509 C17

Zur geschichte der wissenschaften und der gelehrten seit zwei jahrhundert, nebst anderen studien über wissenschaftliche gegenstände, insbesondere über vererbung und selektion beim menschen; deutsch hrsg. von Wilhelm Ostwald. 1911. (Ostwald, Wilhelm, ed. Grosse männer, v. 2.)

"Not a formal history of science, but contributions to that history...A statistical study of the causes that help to produce the scientific investigator...Gives (pp. 326-328 of the German translation) a list of twenty conditions which tend to foster the proper soil for the production of great men; among the most important being the existence of a wealthy leisure class, an old civilization, well organized learned institutions, a public interested more in truth and reality than in poetry and fancy, a religion which does not make use of the principle of authority." *Nation*, 1911.

Houllevigue, Louis.

509 H83

Evolution of the sciences; tr. from the French. 1910. Van Nostrand.

Contents: The tendencies of chemistry.—Transmutation and the experiments of Ramsay.—Does matter exist?—The interior of the earth.—The sun.—Eclipses.—The milky way.—The organisation of matter.—The frontiers of science.

"Each essay presents the broad aspects of the subject surveyed and is well calculated to set students thinking about fundamental principles of science." *Nature*, 1909.

Ornstein, Martha.

r 509 O28

The rôle of the scientific societies in the 17th century. 1913.

"Bibliography," p. 314-322.

Thorough study of the chief factors contributing to the advance of science in Europe during the 17th century. Considers significance of the universities and of the more important scientific societies, concluding "that the organized support which Science needed in order to penetrate into the thought and lives of people was not obtained from universities, but was derived from those forms of corporate activity which it had created for itself, the scientific societies."

Many references to original sources of information.

Whetham, William Cecil Dampier, & Whetham, Mrs

509 W621

C. D. (Holt).

Science and the human mind; a critical and historical account of the development of natural knowledge. 1912. Longmans.

"Bibliography," p. 287-296.

Interesting review of the progress of natural science in relation to other branches of knowledge and to the mental conditions of different periods.

Williams, Henry Smith, & Williams, E. H.

509 W74h

History of science. v. 6-11. 1910.

v. 6. The conquest of nature.

v. 7. The conquest of time and space.

v. 8. Science in the industrial world.

v. 9. Ingenuity and luxury.

- Williams, Henry Smith, & Williams, E. H.**—*continued*. 509 W74h
 v.10. The science of happiness.
 v.11. Key and index.
 Popular work tracing the evolution of scientific knowledge. Style is interesting and the absence of technical terms makes the history suitable for general reading.
 For v.1-5 see preceding catalogue, v.4.

510 Mathematics

General works

- Bromley, Charles Hiram, & Cobleigh, H. R.** 510 B76
 Mathematics for the practical engineer. 1914. McGraw.
Contents: Common or vulgar fractions.—Denominate numbers, percentage, ratio and proportion.—Involution, evolution, square and cube root.—Formulas.—Logarithms.—Mensuration.—Plane trigonometry.
- Chicago University.** qr 510 C43
 [Theses on subjects in mathematics. v.1-3.] 1908-15.
- Giorli, Ezio.** 510 G43
 L'aritmetica e la geometria dell' operajo per le scuole professionali d'arti e mestieri, tecniche, ferroviarie e ad uso dei capi operaj ed operaj. Ed.4, enl. 1914.
- Helm, Georg Ferdinand.** r 510 H42
 Die grundlehren der höheren mathematik, zum gebrauch bei anwendungen und wiederholungen. 1910.
- Karapetoff, Vladimir.** 510 K13
 Engineering applications of higher mathematics. 5 pts. in 5v. 1912-16. Wiley.
 v.1. Problems on machine design.
 v.2. Problems on hydraulics.
 v.3. Problems on thermodynamics.
 v.4. Problems on mechanics of materials.
 v.5. Problems on electrical engineering.
 Bibliography at the end of each volume.
- Koch, Ernest Herman.** 510 K36
 Mathematics of applied electricity; a practical mathematics. 1912. Wiley.
 Assumes knowledge of only the essentials of mathematics through trigonometry and of elementary physics.
- Marsh, Horace Wilmer.** 510 M41
 Constructive text-book of practical mathematics [written] with the collaboration of A. G. F. Marsh. 4v. 1913-14.
 v.1. Industrial mathematics
 v.2. Technical algebra. pt.1.
 v.3. Technical geometry.
 v.4. Technical trigonometry.
 Course aiming at proficiency in application rather than at mental discipline. Characterized by wide departures from conventional methods of instruction, and by attempts to bring the study of mathematics into intimate relation with commercial and industrial activities. Adapted to self-instruction and well suited to needs of the student with inadequate elementary preparation.
- Mathematische formeln.** [1905.] (Miniatur-bibliothek.) r 510 M46

Norris, Earle Bertram, *and others.*

510 N45

Shop mathematics; prepared in the Extension division of the University of Wisconsin. 2 pts. in 2v. 1912-13. McGraw. (Industrial series.)

v.1. Shop arithmetic, by E. B. Norris and K. G. Smith.

v.2. Advanced shop mathematics, by E. B. Norris and R. T. Craigo.

Has been used both for classroom work and for correspondence instruction. Problems and applications relate largely to the metal-working trades. Special attention to needs of the apprentice.

Palmer, Claude Irwin.

510 P19

Practical mathematics. 4v. 1912-13. McGraw.

v.1. Arithmetic with applications.

v.2. Geometry with applications.

v.3. Algebra with applications.

v.4. Trigonometry and logarithms.

Perry, John, b. 1850.

510 P44e

Elementary practical mathematics, with numerous exercises for the use of students and especially of mechanical and electrical engineering students. 1913. Macmillan.

Author insists that engineering mathematics should be concerned chiefly with practical applications, and his book consists of instruction in the use rather than in the science of mathematics.

Seaver, Edwin Pliny.

r 510 S44

Mathematical handbook. containing the chief formulas of algebra, trigonometry, circular and hyperbolic functions, differential and integral calculus and analytical geometry, with mathematical tables. 1907. McGraw.

Compact reference book giving formulas without discussing their derivation.

Slichter, Charles Sumner.

510 S63

Elementary mathematical analysis; a text book for first year college students. 1914. McGraw. (Modern mathematical texts.)

Weber, Heinrich, 1842-1913, & Wellstein, Josef, *comp.*

r 510 W37

Encyklopädie der elementar-mathematik; ein handbuch für lehrer und studierende. Ed.2-3. v.1-2, v.3, pt.1-2. 1907-12.

v.1. Elementare algebra und analysis, bearbeitet von Heinrich Weber.

v.2. Elemente der geometrie, bearbeitet von Heinrich Weber [und anderen].

v.3, pt.1-2. Angewandte elementar-mathematik: Mathematische physik, mit einem buch über maxima und minima, von H. Weber und J. Wellstein, bearbeitet von R. H. Weber; Darstellende geometrie, graphische statik, wahrscheinlichkeitsrechnung, politische arithmetik und astronomie, bearbeitet von Josef Wellstein [und anderen].

Whitehead, Alfred North.

510 W63

Introduction to mathematics. 1911. Holt. (Home university library of modern knowledge.)

"Bibliography," p.251-252.

Whitehead, Alfred North, & Russell, Bertrand.

qr 510 W63

Principia mathematica. v.1-3. 1910-13. Cambridge University Press.

v.1. Mathematical logic.—Prolegomena to cardinal arithmetic.

v.2. Cardinal arithmetic.—Relation-arithmetic.—Series.

v.3. Series (continued).—Quantity.

"The mathematical treatment of the principles of mathematics, which is the subject of the present work, has arisen from the conjunction of two different studies, both in the main very modern. On the one hand we have the work of analysts and geometers, in the way of formulating and systematising their axioms...On the other hand we have symbolic logic." *Preface.*

Notation is based on that of Peano's "Formulaire de mathématiques" (r 510 P34).

Encyclopedias

Encyklopädie der mathematischen wissenschaften mit einschluss ihrer anwendungen; hrsg. im auftrage der akademieen der wissenschaften zu Göttingen, Leipzig, München und Wien, sowie unter mitwirkung zahlreicher fachgenossen. v.1-6. 1898-1915.

Many numbers wanting.

Hoffmann, Ludwig, *architect*.

qr 510.3 E62

Mathematisches wörterbuch; alphabetische zusammenstellung sämtlicher in die mathematischen wissenschaften gehörender gegenstände in erklärenden u. beweisenden synthetisch u. analytisch bearbeiteten abhandlungen. pt.1-2. 1857.

pt.1-2. A-Atmosphäre.

Title-page wanting.

Periodicals

American Mathematical Society.

r 510.5 A51

Bulletin [monthly], Oct. 1894-July 1909. v.1-15. 1894-1909.

Index, v.11-20, 1904-July 1914.

Name was changed from New York Mathematical Society to American Mathematical Society in 1894.

For later volumes of bulletin see preceding catalogue, v.6.

Bryn Mawr College.

qr 510.4 B84

Contributions from the mathematical and physical departments. pt.2. 1909. (Monographs; reprint series, v.8.)

For pt.1 see preceding catalogue, v.4.

Missouri University.

qr 510 M74

Studies; mathematics series. v.1, no.1. 1913.

v.1, no.1. On the definition of the sum of a divergent series, by L. L. Silverman.

Pennsylvania University.

r 510.5 P39

Publications; mathematics. no.2-3. 1902-05.

no.2-3. Easton, B. S. The constructive development of group-theory, with a bibliography.—Neikirk, L. I. Groups of order p^m which contain cyclic subgroups of order p^{m-3}

For no.1 see preceding catalogue, v.1.

Study and teaching

Ball, Walter William Rouse.

510.7 B21

Mathematical recreations and essays. Ed.5. 1911. Macmillan.

Contents: Arithmetical recreations.—Geometrical recreations.—Mechanical recreations.—Chess-board recreations.—Magic squares.—Unicursal problems.—Kirkman's school-girls problem.—Miscellaneous problems.—The mathematical tripsos.—Three classical geometrical problems.—The parallel postulate.—Insolubility of the algebraic quintic.—Mersenne's numbers.—String figures.—Astrology.—Cryptographs and ciphers.—Hyperspace.—Time and its measurement.—Matter and ether theories.

"Mr. Ball writes with enjoyment of his subject, and in a very agreeable style; moreover he does not assume the reader to possess any knowledge of advanced mathematics...For those merely in search of diversion he provides a mine of amusement." *Nature*, 1905.

Evans, George W.

510.7 E94

Teaching of high school mathematics. 1911. Houghton. (River-side educational monographs.)

Written from modern point of view, emphasizing the practical without underrating traditional methods.

International Commission on the Teaching of Mathematics. r 370 E64 v.26-27

Teaching of mathematics in the United Kingdom. 1912. (In England—Education department. Special reports on educational subjects, v.26-27.)

Lindquist, Theodore. r 510.7 L72

Mathematics for freshmen students of engineering. 1911.

Thesis for Ph. D., University of Chicago.

"Bibliography," p.131-135.

Valuable publication indicating careful study of conditions in the United States. Traces history of engineering education and development of instruction in mathematics. Gives interesting data on engineering colleges (1908) with comparison of entrance requirements, courses, and percentage of time devoted to mathematics. Summarizes opinions of instructors and practical engineers on such questions as advisability of entrance examinations, deficiencies in preparation of students, purpose of and necessity for instruction in various branches of mathematics, and separate classes and modified instruction for engineering students. From comparison of various opinions deductions are drawn regarding the collegiate curriculum and the needs and tendencies in mathematical training.

Young, Jacob William Albert. 510.7 Y38t

Teaching of mathematics in the elementary and the secondary school. 1911. Longmans. (American teachers' series.)

"Bibliography" at the beginning of many of the chapters.

Tables. Instruments

Bottomley, James Thomson. r 510.8 B64

Logarithmic & trigonometrical tables for approximate calculation. Enl. ed. [1876?] Collins.

Binder's title reads "Mathematical tables."

Heather, John Fry. r 510.8 H38

Treatise on mathematical instruments, including most of the instruments employed in drawing, for assisting the vision, in surveying and levelling, in practical astronomy and for measuring the angles of crystals, in which their construction and the methods of testing, adjusting and using them are concisely explained. Ed.2, rev. 1853. Weale.

Loomis, Elias. r 514 L85

Tables of logarithms of numbers and of sines and tangents for every ten seconds of the quadrant, with other useful tables. Ed.36. 1873. Harper.

Bound with his "Elements of plane and spherical trigonometry."

Napier, John, baron of Merchiston. r 016.5108 N12

Mathematical work of John Napier, astronomical, mathematical and other tables; a catalogue of a collection of books offered on the occasion of the Napier tercentenary. 1914. Wesley.

Peirce, Clarence Andrew, comp. 510.8 P55

Handbook of tables and formulas for engineers, with mathematical sections by W. B. Carver. 1914. McGraw.

Largely mathematical but includes sections on measurement mechanics, strength of materials, and physical and chemical properties of substances.

Peters, Jean, ed.

qr 510.8 P45

Neue rechentafeln für multiplikation und division mit allen ein- bis vierstelligen zahlen. 1909.

German and English text; English title reads "New calculating tables for multiplication and division by all numbers of from one to four places."

Schreffler, Robert Bruce.

510.8 S37

Department store statistics with the aid of the slide rule. 1914. Privately printed.

Aims to help put department store accounting on a more scientific basis, though not intended at all as a work on bookkeeping. Suggests methods for use in making up payroll statistics, taking inventories, etc. Author is a strong advocate of the use of the slide rule.

United States—Geological survey.

r 510.8 U25

Logarithms and factors for converting latitudes and departures in feet to seconds of latitude and longitude for latitudes 0° to 72° , by D. H. Baldwin. 1913.

Vega, Georg, *freiherr* von.

r 510.8 V24g

Georgii Vega tabulae logarithmico-trigonometricae, cum diversis aliis in matheseos usum constructis tabulis et formulis. Ed.2, rev. & enl. 2v. 1797.

Latin and German text.

German title reads "Logarithmisch-trigonometrische tafeln."

Vega, Georg, *freiherr* von.

qr 510.8 V24t

Thesaurus logarithmorum completus, ex Arithmetica logarithmica et ex Trigonometria artificiali Adriani Vlacci collectus, plurimis erroribus purgatus, in novum ordinem redactus, et prima post centesimam logarithmorum chiliade, partibus quibusdam proportionalibus differentiarum, logarithmis sinuum, cosinuum, tangentium et cotangentium pro primis ac postremis duobus quadrantis gradibus ad singula minuta secunda, formulis nonnullis trigonometricis, Wolframii denique Tabula logarithmorum naturalium locupletatus a Georgio Vega. 1794.

Title-page and introduction in Latin and German.

Hobson, Ernest William.

510.809 H65

John Napier and the invention of logarithms, 1614. 1914. Cambridge University Press.

Lecture presenting very brief review of Napier's life and of the construction of his logarithm tables, with notes on some rival tables.

Mechanical accounting. Graphs

Burroughs Adding Machine Company, Detroit.

510.81 B94ab

A better day's profits, for the retailer who realizes that he can build a big business only by getting and using all the small facts, by A. M. Burroughs. [Ed.3.] 1915.

Instructive booklet on the importance of eliminating guesswork in retailing, the cost of doing business, the value of a sales record, and the possibilities of machines in book-keeping.

- Freeman, W. E.** r 621.32 N15 v.38, pt.3
 Statistical machines; evolution of Babbage's calculating, difference and analytical engines and perforated cards, with particular reference to improvements in the art of mechanical accounting. 1915. (In National Electric Light Association. Proceedings, v.38, pt.3, p.128-198.)
- Runge, Carl David Tolmé.** qr 530 C72 no.4
 Graphical methods; a course of lectures delivered in Columbia University, New York, Oct. 1909 to Jan. 1910. 1912. (In Columbia University, New York. Publication of the Ernest Kempton Adams fund for physical research, no.4.)

History

- Ball, Walter William Rouse.** 510.9 B21
 Short account of the history of mathematics. Ed.4. 1908. Macmillan.
 Excellent systematic summary of the origin and development of mathematics as a whole. Largely biographical.
- Cantor, Moritz Benedikt.** r 510.9 C17
 Vorlesungen über geschichte der mathematik. Ed.1-3. v.1-4. 1900-08.
 v.1. Von den ältesten zeiten bis zum jahre 1200.
 v.2. Von 1200-1668.
 v.3. Von 1668-1758.
 v.4. Von 1759 bis 1799.
 "The one modern and complete source of information for the history of mathematics." *Encyclopædia Britannica*.
- Miller, George Abram.** 510.9 M69
 Historical introduction to mathematical literature. 1916. Macmillan.
The same.....r 510.9 M69
 "Brief lists of important works," p.275-290.
 Excellent non-technical guide to the literature of mathematics. Contains brief biographies of 25 prominent deceased mathematicians.

511 Arithmetic

- Bigelow, Anson Hardin, & Arnold, W. A.** 511 B47
 Elements of business arithmetic. 1911. Macmillan. (Macmillan's commercial series.)
 Aims to treat subjects by methods that will be practical outside of the school. Some of the subjects included are, measures of area, volume, time and weight, taxes and duties, banking and discount, insurance, and stocks and bonds.
- Fish, Daniel W. ed.** r 511 F52
 Progressive intellectual arithmetic on the inductive plan; designed for the more advanced classes in common schools and academies. 1869. Griggs.
- Groesbeck, John.** r 511 G93
 Crittenden commercial arithmetic and business manual; designed for the use of merchants, business men, academies and commercial colleges. Ed.10, rev. & enl. 1870. Eldredge.

- Hobbs, Charles Austin.** r 511 H64
 Arithmetic for preparatory schools, high schools and academies.
 1890. Lovell.
 Binder's title reads "Academic arithmetic."
- How to become quick at figures.** Ed.20, enl. 1891. Hinds. 511 H84a
 With this is bound "Quick at figures."
- Jackson, Samuel.** r 511 J12
 Commercial arithmetic. 1893. Macmillan. (Elementary commercial class-books.)
- Orton, Hoy D. & Sadler, W. H.** r 511 O28
 Orton & Sadler's business calculator and accounts assistant; a cyclopaedia of the most concise and practical methods of business calculations, including many valuable labor-saving tables, with improved interest tables. 1877. Sadler.
- Pike, Stephen.** r 511 P58
 Teachers' assistant; or, A system of practical arithmetic, wherein the several rules of that useful science are illustrated by a variety of examples, a large proportion of which are in Federal money; the whole designed to abridge the labour of teachers and to facilitate the instruction of youth. 1822. Warner.
- United States—Navigation bureau.** (Navy department.) 511 U25
 Arithmetic; comp. for the use of the enlisted men under instruction in the United States school for naval machinists [by F. L. Elkins]. 1913.
- Walton, George Augustus, & Walton, E. N. L.** r 511 W19
 Illustrative practical arithmetic by a natural method, with dictation exercises, for common schools, high schools, normal schools and academies. 1869. Brewer.
- Wentworth, George Albert, & Hill, G. A.** r 511 W52e
 Examination manuals. no.1. 1884. Ginn.
 no.1. Arithmetic.

Study and teaching

- McMurry, Charles Alexander.** 511.07 M21
 Special method in arithmetic. 1912. Macmillan.
 "Books for teachers," p.223-225.
- Monroe, Walter Scott.** r 511.07 M83
 Report of the use of the Courtis standard research tests in arithmetic in 24 cities. 1915. (In Kansas—Educational measurements and standards bureau. Studies, no.4.)
- Smith, David Eugene.** 511.07 S64
 Teaching of arithmetic. Ed.3. 1909. (Columbia University, New York—Teachers college.)
 Contains many bibliographies.
The same. 1909. (In Teachers College record, v.10,
 no.1.)qr 370.5 T26 v.10
 "Intended as it is for those who are teaching or supervising the work in arithmetic in the elementary schools, it would hardly serve its purpose if it departed widely from the practical and entered the domain of pure theory." *Preface.*

Poincaré, Jules Henri 504 P74
Wartość nauki; przekład Ludwika Silbersteina. 1908.

Williams, Henry Smith. 504 W74
Miracles of science. 1913. Harper.

Contents: Introduction.—The origin of the world.—Charting the universe.—Weighing the worlds.—Exploring the atom.—Juggling with life.—The creation of species.—Mastering the microbe.—Banishing the plagues.—Working wonders with a top.—The conquest of time and space.—Our wonderful generation.

505 Periodicals

Colorado College publications; science series. no.1-67. 1890-1916. r 505 C72

No.1-29 issued in Colorado College studies, v.1-10, (r 505 C722).

Continues the old volume numbering of the Colorado College studies; no.30-53 are called v.11 and no.54-67, v.12, no.1-14.

Colorado University. r 505 C7222
Bulletin; natural history series. no.1. 1913.

Humboldt library of popular science literature, Nov. 12, 1879-July 1, 1881, Oct. 1882-Sept. 1883. no.1-24, 37-48. 1879-83. r 505 H923

no.1-24. Light science for leisure hours, by R. A. Proctor.—The forms of water, by John Tyndall.—Physics and politics, by Walter Bagehot.—Man's place in nature, by T. H. Huxley.—Education; intellectual, moral and physical, by Herbert Spencer.—Town geology, by Charles Kingsley.—The conservation of energy, by Balfour Stewart.—The study of languages, by C. Marcel.—The data of ethics, by Herbert Spencer.—The theory of sound in its relation to music, by Pietro Blaserna.—The naturalist on the river Amazons, pt.1-2, by H. W. Bates.—Mind and body, by Alexander Bain.—The wonders of the heavens, by Camille Flammarion.—Longevity, by John Gardner.—The origin of species, by T. H. Huxley.—Progress; its law and cause, by Herbert Spencer.—Lessons in electricity, by John Tyndall.—Familiar essays on scientific subjects, by R. A. Proctor.—The romance of astronomy, by R. K. Miller.—Physical basis of life, and other essays, by T. H. Huxley.—Seeing and thinking, by W. K. Clifford.—Scientific sophisms, by Samuel Wainwright.—Popular scientific lectures, by H. Helmholtz.

no.37-48. Six lectures on light, by John Tyndall.—Geological sketches, by Archibald Geikie.—The scientific evidence of organic evolution, by G. J. Romanes.—Current discussions in science, by W. M. Williams.—The history of the science of politics, by Frederick Pollock.—Darwin and Humboldt, by T. H. Huxley and others.—The dawn of history, by C. F. Keary.—The diseases of memory, by Th. Ribot.—The childhood of religions, by Edward Clodd.—Life in nature, by James Hinton.

Missouri University. r 505 M74b
Bulletin; science series, 1911-14. v.1-2. 1911-14.

- v.1. Non-technical lectures by members of the faculty of the University.
- v.2, no.1. The implantation of the glochidium on the fish, by Daisy Young.
- v.2, no.2. Notes on the Ohio shales and their faunas, by E. B. Branson.
- v.2, no.3. The blond race and the Aryan culture, by T. B. Veblen.
- v.2, no.4. The Devonian fishes of Missouri, by E. B. Branson.

La Nature; revue des sciences et de leurs applications aux arts et à l'industrie [weekly], 1898-99. v.50-53. 1898-99. qr 505 N1581

———Table des matières, v.20-39, 1883-1892.

———Table des matières, v.40-59, 1893-1902.

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For earlier indexes and volumes of magazine see preceding catalogue, v.1.

- r 020.5 L681 v.14
- Popular science monthly**; index to scientific portraits, v.1-35, 1872-89. (In Library journal, 1889, v.14, p.435-436.)
For other indexes and for volumes of magazine see preceding catalogue, v.1.
- Royal Society of London—Library.** r 016.505 R81
Catalogue of the periodical publications in the library. 1912.
- r 505 S37
- School science and mathematics**; a [monthly] journal for science and mathematics teachers in secondary schools, 1906-15. v.6-15. 1906-15.
No numbers published during July, August and September.
- Scientific monthly**, Oct. 1915-date. v.1-date. 1915-date. qr 505 S4166
Scientific in character, and a direct continuation, changed only in title and volume, of "Popular science monthly," which, with October 1915, became a popular amateur journal.
- Washington (D. C.) Academy of Sciences.** qr 505 W27
Journal, July 19, 1911-date. v.1-date. [1911]-date.
Supersedes the Proceedings.
Published monthly Oct.-June, semimonthly July-Sept.
- Wisconsin University.** r 505 W81
Bulletin; science series. v.3, no.6-10; v.4, no.1-5. 1907-12.
For earlier volumes see preceding catalogue, v.1, 4.
- r 505 Y13
- Yale Sheffield monthly**, Oct. 1913-1918. v.20-24. 1913-18.
Published by the senior class of the Sheffield scientific school, Yale University.
For v.6-19 see preceding catalogue, v.1, under title "Yale scientific monthly."
Publication discontinued with v.24.
Continued by the "Yale graphic."

506 Societies

- American Academy of Arts and Sciences.** qr 506 A5122m
Memoirs, new ser. v.14, pt.1. 1913.
For earlier volumes see preceding catalogue, v.4, 6.
- Carnegie Institution of Washington.** r 506 C21
Publications of the Carnegie Institution of Washington; price-list, classified descriptive lists and index of authors. 1916.
- Chicago Academy of Sciences.** r 506 C43s
Special publications. no.3. 1911.
no.3. Baker, F. C. The Lymnaeidae of North and middle America, recent and fossil.
For no.1-2 see preceding catalogue, v.4, 6.
- Gordon Memorial College—Wellcome tropical** qr 506 G65
research laboratories.
Report (4th, pt.B), 1911. 1911. Baillière.
v.4, pt.B. General science.
- Indiana Academy of Science.** r 506 I242
Proceedings [of the annual meeting], 1891-1914. [1892]-1915.
- Michigan Academy of Science.** r 506 M66
Annual report (2d-3d), 1899/1900-1900/01. 1901-02.
For other reports see preceding catalogue, v.1, 4.

- National Academy of Sciences.** qr 506 N15h
History of the first half-century of the National Academy of Sciences, 1863-1913 [prepared and ed. by F. W. True]. 1913.
"List of publications," p.374-384.
- National Academy of Sciences.** qr 506 N15p
Proceedings [monthly], 1915-date. v.1-date. 1915-date.
- Pan-American Scientific Congress (2d), Washington,** qr 506 P21
D. C. 1915-16.
Daily bulletin, Dec. 28, 1915-Jan. 9, 1916. v.1. 1915-16.
English and Spanish text; Spanish title reads "Boletín diario."
- Pittsburgh, Academy of Science and Art.** qr 506 P67b
Bulletin [weekly], Dec. 1911-date. v.1-date. [1911-date. Pittsburgh.]
Not issued during June, July, August and September.
- Royal Society of London.** r 506 R81pr
Proceedings; index, v.1-75, 1800-1905.
For volumes of proceedings see preceding catalogue, v.1.
- Virginia University—Philosophical society.** qr 506 V34
Proceedings, 1910/11-1911/12.

507 Museums. Scientific research

- Brooklyn Institute of Arts and Sciences—Children's** qrj 507 B77c
museum.
Children's museum news; an illustrated periodical devoted to the activities of the Children's museum in presenting to the children various subjects in natural history, geography and United States history [monthly], Oct. 1913-date. v.1-date. 1913-date.
This periodical with the "Brooklyn museum quarterly" continues the "Museum news."
- Brooklyn Institute of Arts and Sciences—Museum.** r 507 B77
Brooklyn museum quarterly; an illustrated magazine devoted to subjects of interest in fine arts, ethnology and natural history, with special emphasis upon the activities of the Brooklyn museum and its influence as an educational institution, March 1914-date. v.1-date. 1914-date.
This periodical with the "Children's museum news" continues the "Museum news" (qrj 507 B77m).
- Carnegie Institute, Pittsburgh—Museum.** r 061 C21
Annual report (13th-date), 1909/10-date. 1910-date. (In Carnegie Institute, Pittsburgh. Annual report of the president of the board of trustees, 1909/10-date.)
For v.1-12 see preceding catalogue, v.1.
- Carnegie Institute, Pittsburgh—Museum.** qr 507 C21m
Memoirs. v.3, v.4, no.2-date. 1907-date.
v.3. Archeological researches on the Pacific coast of Costa Rica, by C. V. Hartman.
—The osteology of the Chalicotheroidea with special reference to a mounted skeleton of *Moropus Elatus* Marsh, now installed in the Carnegie Museum, by W. J. Holland and O. A. Peterson.
v.4, no.2-7. Description of three new species of carangoid fishes from Formosa, by D. S. Jordan and J. O. Snyder.—A revision of the entelodontidae, by O. A. Peterson.

Carnegie Institute, Pittsburgh—Museum—continued. qr 507 C21m

—A catalog of the fishes of Formosa, by D. S. Jordan and R. E. Richardson.—Description of new carnivores from the Miocene of western Nebraska, by O. A. Peterson.—A monograph of the Najades of Pennsylvania, by A. E. Ortmann.—Catalog of fossil fishes in the Carnegie Museum, pt.1, by C. R. Eastman.

v.5. The freshwater fishes of British Guiana, including a study of the ecological grouping of species and the relation of the fauna of the plateau to that of the lowlands, by C. H. Eigenmann.

v.6, no.1-3. A catalog of the fishes known from the waters of Korea, by D. S. Jordan and C. W. Metz.—The lantern-fishes of Japan, by C. H. Gilbert.—The gymnotid eels of tropical America, by M. M. Ellis.—Record of the fishes obtained in Japan in 1911, by D. S. Jordan and W. F. Thompson.—Catalog of the fossil fishes in the Carnegie Museum, pt.2-4, by C. R. Eastman.

v.7, pt.1-3. The Cheirodontinae, a subfamily of minute characid fishes of South America, by C. H. Eigenmann.—The fossil turtles of the Uinta formation, by C. W. Gilmore.—Catalog of the Ophidia from South America at present (June 1916) contained in the Carnegie Museum, with descriptions of some new species, by L. E. Griffin.

For v.1-2; v.4, no.1 see preceding catalogue, v.1, 4.

Carnegie Institution of Washington.

qr 507 C216sc

Scope and organization; issued on the occasion of the 10th anniversary, Dec. 14, 1911.

Connolly, Louise.

r 507 C75

Educational value of museums; ed. and with an introduction by

J. C. Dana. 1914.

Published by the Newark (New Jersey) Museum Association.

r 507 D62

Directory of museums in Great Britain & Ireland, together with a section on Indian and colonial museums; comp. by E. Howarth and H. M. Platnauer [1911]. 1911. Museums Assoc.

Brief information on organization, scope, hours, income and expenditures, publications and nature of collections.

New York (state)—Museum.

qr 507 N26b

Bulletin, 1903-11. no.72-148. 1903-11.

The same, 1911-date. no.149-date. 1911-date. (In New York (state)—Museum. Annual report, v.64-date.).....qr 507 N26

For contents see Contents book kept at the reference desk.

For no.1-71 see preceding catalogue, v.1.

Pennsylvania Museum and School of Industrial Art, Philadelphia.

qr 507 P39

Bulletin [quarterly], 1903-date. v.1-date. 1903-date.

Pennsylvania University—Free museum of science and art. qr 507 P399

Museum journal [quarterly], June 1910-date. v.1-date. 1910-date.

Philadelphia Museums.

qr 507 P494

Annual report, 1912-date. [1912]-date.

Philippine islands—Science bureau.

qr 507 P49

Annual report (12th-15th), 1912/13-1916. 1913-17.

For v.1-7 see preceding catalogue, v.6.

United States—National museum.

r 507 U25b

Bulletin. no.1-30. 1877-85.

No.17, 19, 21-22, 24-25, 27-29 wanting.

No.1-16 will be found in Miscellaneous collections of the Smithsonian Institution, v.13, 23-24 (r 506 S66m).

Bulletins no.1-55 are indexed in Bulletin no.51.

For no.33-date see preceding catalogue, v.1, 4.

- Suzzalo, Henry.** 511.07 S96
The teaching of primary arithmetic; a critical study, with an introduction by D. E. Smith. 1912. Houghton. (Riverside educational series.)

Numerals. Numbers

- Smith, David Eugene, & Karpinski, L. C.** 511.2 S64
Hindu-Arabic numerals. 1911. Ginn.
"Gives in compact form a readable and carefully prepared account of the numerous researches which have been made in the endeavor to trace the origin and development of the Hindu-Arabic numerals." *Science*, 1912.
- Lehmer, Derrick Norman, comp.** qr 511.3 L55
List of prime numbers from 1 to 10,006,721. 1914. (Carnegie Institution of Washington. Publication no.165.)

512 Algebra

- Arithmetik** (buchstabenrechnung). [1898.] (Miniatur-bibliothek.) r 512 A71
- Brooks, Edward.** r 512 B77
Normal elementary algebra, containing the first principles of the science, developed with conciseness and simplicity, for common schools, academies, seminaries and normal schools. Rev. ed. 1888. Sower.
- Colburn, Warren.** r 512 C67
Introduction to algebra upon the inductive method of instruction. 1830. Hilliard.
- Davies, Charles, 1798-1876.** r 512 D31
Elementary algebra, embracing the first principles of the science. 1846. Barnes.
- Evans, George W.** r 512 E94
Algebra for schools. 1899. Holt.
- Greenleaf, Benjamin.** r 512 G84
New higher algebra; an analytical course designed for high schools, academies and colleges. 1867. Davis.
- Hall, Henry Sinclair, & Knight, S. R.** r 512 H17
Algebra for beginners; rev. and adapted to American schools by F. L. Sevenoak. 1895. Macmillan.
- Lilley, George.** r 512 L69
Higher algebra. 1894. Silver.
- Loomis, Elias.** r 512 L85e
Elements of algebra; designed for beginners. Ed.23. 1870. Harper.
- Loomis, Elias.** r 512 L85
Treatise on algebra. Rev. ed. 1870. Harper.

- Olney, Edward.** r 512 O23
Complete school algebra, embracing simple and quadratic equations, proportion and the progressions, with an elementary and practical view of logarithms, and a chapter on the business rules of arithmetic treated algebraically. 1870. Sheldon. (Olney's mathematical series.)
- Rietz, Henry Lewis, & Crathorne, A. R.** 512 R45
College algebra. 1909. Holt.
The same.....r 512 R45
- Wells, Webster.** r 512 W49c
Complete course in algebra for academies and high schools. 1885. Leach.
Binder's title reads "Academic algebra."
- Wells, Webster.** r 512 W49
Short course in higher algebra for academies, high schools and colleges. 1889. Leach.
- Wentworth, George Albert.** 512 W52c2
College algebra. Rev. ed. 1902. Ginn.
- Young, John Wesley.** 512 Y38
Lectures on fundamental concepts of algebra and geometry; prepared for publication with the coöperation of W. W. Denton. 1911. Macmillan.
Contains also a note on "The growth of algebraic symbolism," by U. G. Mitchell. Assumes knowledge merely of elements of algebra and geometry. Treats fundamental principles of mathematics from most recent point of view.
- Coffin, Joseph George.** 512.24 C66
Vector analysis; an introduction to vector-methods and their various applications to physics and mathematics. Ed.2. 1911. Wiley.
"Bibliography," p.19.
No attempt at mathematical rigor is made, as author considers the appearance of extended proofs out of place in a book of this kind. Notation adopted is that of Willard Gibbs.

513 Geometry

- Archimedes.** r 513 A67
Works of Archimedes; ed. in modern notation, with introductory chapters by T. L. Heath. 1897. Cambridge University Press.
"List of the principal works consulted," p.11-12.
- Chauvenet, William.** r 513 C41
Treatise on elementary geometry, with appendices containing a collection of exercises for students and an introduction to modern geometry. 1875. Lippincott.
- Edwards, George Cunningham.** r 513 E31
Elements of geometry. 1895. Macmillan.
- Legendre, Adrien Marie.** r 513 L54e
Elements of geometry and trigonometry; tr. from the French by David Brewster, revised and adapted to the course of mathematical instruction in the United States by Charles Davies. 1849. Barnes.

Low, David Allan.

513 L95

Practical geometry and graphics. 1912. Longmans.

Concerned not so much with the educational value of the subject as with its application to engineering problems in the drafting room.

"Excellent attempt to co-ordinate mathematics and drawing work...Professor Low...has succeeded in compressing an immense amount of information into a comparatively small space, without...making any sacrifice of clearness." *Engineering*, 1913.

Perkins, George Roberts.

r 513 P43

Plane and solid geometry, to which is added plane and spherical trigonometry and mensuration, accompanied with all the necessary logarithmic and trigonometric tables. 1856. Appleton.

Smith, William Benjamin.

r 513 S66

Introductory modern geometry of point, ray and circle. 1893. Macmillan.

Sommerville, Duncan M'Laren Young, comp.

r 016.513 S69

Bibliography of non-Euclidean geometry, including the theory of parallels, the foundations of geometry and space of n dimensions. 1911. University of St. Andrews.

About 4,000 titles. Chronological arrangement, with author and subject indexes. "Introduction," p.6, contains review of previous bibliographies of the subject.

Hobson, Ernest William.

513.21 H65

"Squaring the circle;" a history of the problem. 1913. Cambridge University Press.

Bonola, Roberto.

513.8 B62

Non-Euclidean geometry; a critical and historical study of its development; authorized English translation with additional appendices by H. S. Carslaw, with an introduction by Federigo Enriques. 1912. Open Court Pub. Co.

Takes the developmental point of view and gives a just and adequate account of the forerunners of non-Euclidean geometry. Less satisfactory in treatment of the real founders of non-Euclidean geometry. *Condensed from Science*, 1912.

Manning, Henry Parker.

513.82 M33g

Geometry of four dimensions. 1914. Macmillan.

Treatment rests directly upon foundation of geometry usually laid in schools. Theorems are stated and proofs given. For the most part only Euclidean geometry is used.

Rupert, William Whitehead.

513.9 R87

Famous geometrical theorems and problems, with their history. 4 pts. in 1. 1900-01. Heath. (Heath's mathematical monographs.)

Deals with such problems as trisection of an angle, the value of the ratio of the circumference of a circle to its diameter, and duplication of the cube.

514 Trigonometry

Bohannon, Rosser Daniel.

r 514 B59

Plane trigonometry. 1904. Allyn.

With this is bound his "Four-place mathematical tables."

Chauvenet, William.

r 514 C41

Treatise on plane and spherical trigonometry. Ed.4. 1856. Lippincott.

Loomis, Elias. r 514 L85

Elements of plane and spherical trigonometry, with their applications to mensuration, surveying and navigation. Ed.25. 1873. Harper.

With this is bound his "Tables of logarithms of numbers and of sines and tangents for every ten seconds of the quadrant."

Taylor, James Morford. 514 T25

Plane trigonometry. 1904. Ginn.

Clear, elementary text-book.

Kennelly, Arthur Edwin. qr 514.1 K18a

Chart atlas of complex hyperbolic and circular functions. 1914. Harvard University Press.

Being supplement to his "Tables of complex hyperbolic and circular functions" (qr 514.1 K18).

Kennelly, Arthur Edwin. qr 514.1 K18

Tables of complex hyperbolic and circular functions. 1914. Harvard University Press.

Bibliography, p.209-212.

Supplemented by his "Chart atlas of complex hyperbolic and circular functions" (qr 514.1 K18a).

"The tables...present hyperbolic and circular functions of a complex variable, both in polar and rectangular coördinates. Such complex functions have not hitherto been published, except over a very restricted range. They have important applications in electrical engineering." *Preface.*

Palmer, Claude Irwin, & Leigh, C. W. 514.5 P19

Plane trigonometry with tables. 1914. McGraw.

"Five-place logarithmic and trigonometric tables, with explanatory chapter" has special title-page and separate paging.

515 Descriptive geometry

Slagle, William Calvin Hoover. 515 S63

Descriptive geometry. 6v. 1912. McGraw.

- v.1. Projections.
- v.2. Problems of the point, line and plane.
- v.3. Warped surfaces.
- v.4. Shade and shadows.
- v.5. Isometric drawing.
- v.6. Perspective.

Smith, William Griswold. 515 S66

Practical descriptive geometry. Ed.2, rev. & enl. 1916. McGraw.

The same. 1912.....r 515 S66

Presented in a simple manner, keeping constantly in mind the relation between descriptive geometry and practical drafting. Attributes great importance to the working of practical exercises, of which it furnishes a large number.

Pillet, Jules. q 515.7 P59

Shades and shadows; an exposition of short and convenient methods for determining the shades and shadows of objects illuminated by the conventional parallel rays; tr. and rev. by Julian Millard. 1896. Bates.

516 Analytical geometry

Davies, Charles, 1798–1876. r 516 D31

Elements of analytical geometry, embracing the equations of the point, the straight line, the conic sections and surfaces of the first and second order. Rev. ed. 1860. Barnes.

Eddy, Henry Turner. r 516 E26

Treatise on the principles and applications of analytic geometry. 1874. Cowperthwait.

Hann, James. r 516 H23

Rudimentary treatise on analytical geometry and conic sections. 1850. Weale.

Howison, George Holmes. r 516 H86

Treatise on analytic geometry, especially as applied to the properties of conics, including the modern methods of abridged notation; written for the mathematical course of Joseph Ray. 1869. Wilson. (Eclectic educational series.)

Loomis, Elias. r 516 L85

Elements of analytical geometry and of the differential and integral calculus. Ed.19. 1871. Harper.

Smith, Percy Franklyn, & Gale, A. S. 516 S65

Elements of analytic geometry. 1904. Ginn.

Intended as text-book for beginners.

Salmon, George. r 516.22 S17

Treatise on conic sections, containing an account of some of the most important modern algebraic and geometric methods. Ed.5. 1869. Longmans.

This and the other two volumes by the same author are of the highest value. They have been translated into foreign languages and are among the most important existing contributions to analytical geometry.

Salmon, George. r 516.26 S17

Treatise on the higher plane curves, intended as a sequel to A treatise on conic sections. Ed.2. 1873. Hodges.

Salmon, George. r 516.5 S17

Treatise on the analytic geometry of three dimensions. Ed.3. 1874. Hodges.

517 Calculus

Blaine, Robert Gordon. 517 B52

The calculus and its applications; a practical treatise for beginners, especially engineering students. 1911. Constable.

Elementary presentation of fundamentals. Of value chiefly for the many practical problems. Suitable for self-instruction, and useful as an introduction to more complete treatises.

- Campbell, Donald Francis.** 517 C15
Elements of the differential and integral calculus, with numerous examples. 1911. Macmillan.
"Excluding all topics not directly bearing upon engineering, Professor Campbell has been enabled, without making his book large or cumbrous, to give a brief introduction to mechanics and differential equations and at the same time to dwell upon fundamental notions and processes." *Science*, 1905.
- Franklin, William Suddards, and others.** 517 F88
Elementary treatise on calculus; a text book for colleges and technical schools. 1913. Privately printed.
"A selected list of treatises on mathematics and on the various branches of mathematical physics," app. p.29-38.
Interesting, elementary book. Gives particular attention to the application of calculus to problems in physics.
- Gibson, George Alexander.** 517 G36
Introduction to the calculus based on graphical methods. 1909. Macmillan.
"References" on graphical integration, p.208.
Elementary.
- Goursat, Édouard Jean Baptiste.** r 517 G74
Course in mathematical analysis; tr. by E. R. Hedrick and Otto Dunkel. v.2 in 2. 1917. Ginn.
v.2, pt.1. Functions of a complex variable.
v.2, pt.2. Differential equations.
For v.1 see preceding catalogue, v.6.
- Smith, Percey Franklyn.** 517 S65
Elementary calculus; a text-book for the use of students in general science. 1903. Amer. Book Co.
Brief treatment of fundamentals, with regard to their application to scientific problems.
- Wilson, Edwin Bidwell.** 517 W76
Advanced calculus; a text upon select parts of differential calculus, differential equations, integral calculus, theory of functions, with numerous exercises. 1912. Ginn.
"Book list," p.555-556.
"As the aim of the book is to be a working text or laboratory manual for classroom use rather than an artistic treatise on analysis, especial attention has been given to the preparation of numerous exercises which should range all the way from those which require nothing but substitution in certain formulas to those which embody important results withheld from the text for the purpose of leaving the student some vital bits of mathematics to develop." *Preface*.
- Young, Jacob William Albert, & Linebarger, C. E.** 517 Y38
Elements of the differential and integral calculus; based on "Kurzgefasstes lehrbuch der differential- und integralrechnung," by W. Nernst and A. Schönflies. 1910. Appleton.
The same.....r 517 Y38
Clear, elementary treatment of the fundamental ideas of the calculus. Has particular reference to its use by the chemist, and many applications to particular problems in the physical sciences are given.
- Buckingham, Catharinus Putnam.** r 517.1 B85
Elements of the differential and integral calculus, by a new method, founded on the true system of Sir Isaac Newton, without the use of infinitesimals or limits. 1875. Griggs.

- Courtenay, Edward Henry.** r 517.1 C84
Treatise on the differential and integral calculus and on the calculus of variations. 1873. Barnes.
- Osgood, William Fogg.** 517.1 O29a
First course in the differential and integral calculus. Rev. ed. 1914. Macmillan.
"For directness and simplicity of presentation, clearness and correctness of statement, judicious accentuation and ordering of topics, and for the happy mingling of the concrete and particular with the abstract and general, this work attains a level of excellence not likely to be soon surpassed." *C. J. Keyser, in Science, 1908.*
- Price, Bartholomew.** r 517.1 P94
Treatise on infinitesimal calculus. Ed.2. 4v. 1857-59. Oxford University Press.
v.1. Differential calculus.
v.2. Integral calculus, calculus of variations and differential equations.
v.3. Statics and dynamics of material particles.
v.4. Dynamics of material systems.
- [Robinson, Horatio Nelson.]** r 517.1 R55
New treatise on the elements of the differential and integral calculus; ed. by I. F. Quinby. 1868. Ivison.
- Murray, Daniel Alexander.** 517.3 M97
Elementary course in the integral calculus. 1898. Amer. Book Co.
- Boole, George.** r 517.38 B63
Treatise on differential equations. Ed.2, rev. 1865. Macmillan.
- Volterra, Vito.** 517.5 V37
Theory of permutable functions; lectures delivered at Princeton University, Oct. 1912. 1915. Princeton University Press. (Louis Clark Vanuxem foundation.)

519 Probabilities

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Mathematical theory of probabilities and its application to frequency curves and statistical methods; tr. and ed. with the assistance of William Bonyne, with an introductory note by F. W. Frankland. v.1. 1915. Macmillan.
v.1. Mathematical probabilities and homograde statistics.
- Laplace, Pierre Simon, *marquis* de.** 519.1 L31
Philosophical essay on probabilities; tr. from the sixth French edition by F. W. Truscott and F. L. Emory. 1902. Wiley.
Interesting discussion of probability, its calculus and its application to natural phenomena and to such subjects as the veracity of witnesses, decisions of assemblies, rulings of judges, mortality tables, etc. Original essay was based on lectures delivered in 1795.

520 Astronomy

- [Astronomical plates; a collection of 10 plates.]** qr 520 A85
Contents: An eclipse of the sun.—The Pleiades.—A nebula (eta Argus).—Saturn (reproduction of a drawing).—The nebula in Orion.—A portion of the Milky way.—A sun-spot.—A rich star field.—The nebula in Andromeda.—A star cluster.

- Diesterweg, Friedrich Adolph Wilhelm.** r 520 D57
 Populäre himmelskunde und mathematische geographie; neu bearbeitet von M. W. Meyer, unter mitwirkung von B. Schwalbe. Ed.11. 1890.

Popular work, including brief history of astronomy.

- Jacoby, Harold.** 520 J13
 Astronomy; a popular handbook. 1913. Macmillan.
 Attractive, well-written exposition of the whole field. Mathematical notes included in appendix.

- Loomis, Elias.** r 520 L85
 Treatise on astronomy. 1889. Harper.

- Moulton, Forest Ray.** 520 M94
 Introduction to astronomy. Rev. ed. 1916. Macmillan.
 Suitable for students with little mathematical or scientific training.

- Rolfe, William James, & Gillet, J. A.** r 520 R63
 Astronomy. 1868. Crosby. (Cambridge course of elementary physics.)

- Sharpless, Isaac, & Philips, G. M.** r 520 S53
 Astronomy for schools and general readers. Ed.4, rev. 1892. Lippincott.

- White, Charles Joyce.** r 520 W63
 Elements of theoretical and descriptive astronomy, for the use of colleges and academies. Ed.6, rev. 1890. Wiley.

- Turner, Herbert Hall.** 520.4 T86
 A voyage in space; a course of six lectures "adapted to a juvenile auditory," delivered at the Royal Institution at Xmas 1913. 1915. Soc. for Promoting Christian Knowledge.

A journey (by telescope) to the sun, moon, stars and planets. Lectures are both interesting and instructive, and the explanatory notes to the numerous illustrations add much to the value of the book.

Periodicals. History

- Das Weltall;** illustrierte zeitschrift für astronomie und verwandte gebiete [semimonthly], Oct. 1910-date. 11. jahrgang-date. 1910-date. qr 520.5 W51

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 [Constitution, by-laws and list of members. 1914. Pittsburgh.]
 Contains also "History of Allegheny Observatory."

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"Note on books," p.253-254.

Small but excellent work for popular reading rather than for use as text-book.

"Breathes the spirit of the practical astronomer who can form his own opinion as to the value of observations and hypotheses." *Nature*, 1911.

521 Theoretical astronomy

Barlow, Crossley William Crosby, & Bryan, G. H. r 521 B24

Elementary mathematical astronomy, with examples and examination papers. [Ed.2.] 1893. Clive. (University Correspondence College tutorial series.)

Gummere, John. r 521 G97

Elementary treatise on astronomy; rev. and adapted to the present state of the science by E. O. Kendall. Ed.4. 1851. Biddle.

Lepper, George Henry. 521.1 L63

From nebula to nebula; or, The dynamics of the heavens; an expansion of the principle of universal gravitation to the solution of cosmic problems in general. Ed.2, rev. 1913. Privately printed. Pittsburgh.

Contents: Introductory.—Gravitation vs. inertia as the motive power of planets.—The nebular hypothesis.—Gravistatic heat.—The tides and tidal rotation.—Mars in his icy cuirass.—The moon in masquerade.—Miscellaneous problems.—The sun and his system; general survey.

Moulton, Forest Ray. 521.1 M94

Introduction to celestial mechanics. Ed.2, rev. 1914. Macmillan.

"Bibliography" at the end of each chapter.

"An attempt...to give a somewhat satisfactory account of many parts of celestial mechanics, rather than an exhaustive treatment of any special part." *Preface.*

"Attention will naturally be turned to the chapter on the Determination of orbits, for since Watson's 'Theoretical astronomy' has gone out of print there has been a dearth of works in English dealing with this subject." *Knowledge, 1914.*

522 Practical astronomy

Observatories

Allegheny Observatory. r 522.1 A42m

Miscellaneous scientific papers; new series. v.2, no.2. 1913.

v.2, no.2. Dedication of the Allegheny Observatory, Aug. 28, 1912.

For v.1; v.2, no.1 see preceding catalogue, v.6.

Allegheny Observatory. qr 522.1 A42p

Publications. v.2. 1912. [Pittsburgh.]

For v.1 see preceding catalogue, v.6.

Brussels, Observatoire Royal de Belgique. r 522.1 B83

Les observatoires astronomiques et les astronomes; par P. Stroobant, J. Delvosal et H. Philippot, E. Delporte et E. Merlin. 1907.

"Revue astronomique," p.276-280.

World directory of observatories and their equipment, astronomers, and astronomical societies and journals.

California University—Lick Observatory. qr 522.1 C13

Publications, 1907-date. v.7-date. 1907-date.

v.7. Contributions of the Berkeley astronomical department (students' observatory).

v.8. Keeler, J. E. Photographs of nebulae and clusters made with the Crossley reflector.

v.9. D. O. Mills expedition, Cerro San Cristóbal, Santiago, Chile, from its organization in Dec. 1900 to March 1906.

v.10. Tucker, R. H. Meridian circle observations made at the Lick Observatory, 1901-1906.

California University—Lick Observatory—continued. qr 522.1 C13

v.11. Barnard, E. E. Photographs of the Milky way and of comets, made with the six-inch Willard lens and Crocker telescope during the years 1892-95.

v.12. Aitken, R. G. Measures of double stars made with the 36-inch and 12-inch refractors of the Lick Observatory from June 1895 to Dec. 1912.

For v.4-6 see preceding catalogue, v.1.

Chicago University—Yerkes Observatory. qr 522.1 C43

Publications. v.3, pt.1-2. 1903-07.

v.3, pt.1-2. The Rumford spectroheliograph of the Yerkes Observatory, by G. E. Hale and Ferdinand Ellerman.—The spectrum of the high potential discharge between metallic electrodes in liquids and in gases at high pressures, by G. E. Hale and N. A. Kent.

For v.1-2 see preceding catalogue, v.1, 6.

Hale, George Ellery. r 522.1 H15

Ten years' work of a mountain observatory; a brief account of the Mount Wilson Solar Observatory of the Carnegie Institution of Washington. 1915. (Carnegie Institution of Washington. Publication no.235.)

Outline of work accomplished or proposed, with some description of equipment.

Holden, Edward Singleton. r 522.1 H71

Hand-book of the Lick Observatory of the University of California. Rev. ed. 1888. Bancroft Co.

United States—Astrophysical Observatory. qr 522.1 U251

Annals. v.3. 1913.

v.3. Aim and method of principal investigation.—The stations and the apparatus.—Improvements and tests of solar-constant methods and apparatus.—Results of measurements of the intensity of solar radiation.—Applications of solar constant measurements.—The brightness of the sky.—On the distribution of radiation over the sun's disk.

For v.1-2 see preceding catalogue, v.1, 6.

Bartlett, William Holms Chambers. r 522.7 B27

Spherical astronomy. 1859. Barnes. (Elements of natural philosophy, v.4.)

523 Descriptive astronomy

Ball, Sir Robert Stawell. 523 B21in

In starry realms. 1892. Lippincott.

Ball, Sir Robert Stawell. j 523 B21s2

Star-land. Rev. ed. 1899. Ginn.

Grew, Edwin Sharpe. 523 G88

Growth of a planet. [1911.] Methuen.

Interesting summary of theories regarding the development of members of the solar system. Considers the sun and planets from the astronomical point of view, and studies the geological and biological growth as shown by the earth.

Hawks, Ellison. j 523 H36

Stars shown to the children. 1910. Jack. ("Shown to the children" series.)

For boys and girls who want to learn about the sun and its spots, the moon mountains, planets, comets, meteors and stars. Good illustrations from photographs, drawings and colored paintings. Includes a color sketch from the Bayeux tapestry, showing the appearance of Halley's comet in 1066.

Steele, Joel Dorman. r 523 S81

A fourteen weeks course in descriptive astronomy. 1869. Barnes.

Warren, Henry White, *bp.*

r 523 W24

Recreations in astronomy, with directions for practical experiments and telescopic work. 1879. Harper.

Universe

Chamberlin, Thomas Chrowder.

523.1 C35

Origin of the earth. 1916. University of Chicago Press. (Chicago University. Science series.)

"References" at the end of many of the chapters.

Non-technical summary presented in readable and attractive style.

"The previous publications on the planetesimal hypothesis and its relations to the origin of the earth are found in articles chiefly by Chamberlin in the *Journal of geology*, chiefly by Moulton in the *Astro-physical journal*, and by various collaborators mostly in publications of the Carnegie Institution; but only the specialist has pursued all of this more or less technical literature to its lairs." *Science*, 1916.

Moreux, Th.

523.13 M88

Les autres mondes sont-ils habités? 1912.

Ogden, James Gordon.

523.16 O17

The kingdom of dust. 1912. Popular Mechanics Co. (Popular mechanics handbook series.)

Interesting little book, popular in style. Shows the universal prevalence of dust, its helpful and its harmful effects on life.

Planets

Lowell, Percival.

qr 506 A5122m v.14

Origin of the planets. 1913. (In American Academy of Arts and Sciences. Memoirs, new ser. v.14.)

Martin, Martha Evans.

523.4 M42

Ways of the planets. 1912. Harper.

Excellent guide to acquaintance with the planets of the solar system. Written in popular and entertaining style, but without loss of accuracy.

Maunder, Edward Walter.

523.4 M49

Are the planets inhabited? 1913. Harper. (Harper's library of living thought.)

Contents: The question stated.—The living organism.—The sun.—The distribution of the elements in space.—The moon.—The canals of Mars.—The condition of Mars.—The illusions of Mars.—Venus, Mercury and the asteroids.—The major planets.—When the major planets cool.—The final question.

Aurora borealis

Kerillis, H. de.

qr 523.59 K19

L'aurore boréale, théorie et lois héliodynamiques; nouvelle théorie de l'aurore présentée le 23 mai 1910 à l'Académie des Sciences. 1911.

Study of observations of the aurora borealis and attempt to deduce mathematically the theory of its formation.

Sun

Abbot, Charles Greeley.

523.7 A12

The sun. 1911. Appleton.

Thoroughly scientific in scope and treatment, but in a style that will interest the general reader. Gives particular attention to the newer solar knowledge, and aims, in a way, to replace Young's "The sun" (1896). Besides astronomical phenomena, considers also the sun as the source of heat, utilization of solar energy and the influence of the sun on plant life.

Heysinger, Isaac Winter.

r 523.7 H51

Solar energy; its source and mode throughout the universe. Ed.2. 1901. Lippincott.

"Reference index of authorities cited," p.349-351.

Kedzie, John Hume.

r 523.7 K15

Speculations; solar heat, gravitation and sun spots. 1886. Griggs.

Adams, Walter Sydney.

qr 523.73 A21

Investigation of the rotation period of the sun by spectroscopic methods [written with the assistance of] J. B. Lasby. 1911. (Carnegie Institution of Washington. Publication no.138.)

"Bibliographical references," p.132.

"All of the preceding determinations of the rotation period of the sun, with the exception of that of Jewell, have been based on visual observations." *Introduction.*

Stars

Griffith, Alice Mary Matlock, comp.

j 523.8 G89

The stars and their stories; a book for young people, with pen sketches by Margaret Boroughs, and other illustrations. 1913. Holt.

Directions and maps for locating the constellations and principal stars, with myths, chiefly Greek and Roman, and such poems as Bryant's "Hymn to the North star," Lowell's "Finding of the lyre," "Orpheus and Eurydice," by Alfred Noyes, Kingsley's "Andromeda," Mrs Hemans's "Lost Pleiad," and "Ariadne's crown," by Mrs Browning. Concludes with Galileo's account of his first telescope.

Murphy, Edgar Gardner.

q 523.8 Mr8

Beginner's star-book; an easy guide to the stars and to the astronomical uses of the opera-glass, the field-glass and the telescope, by Kelvin McKready [pseud.], with charts of the moon, tables of the planets and star maps on a new plan. 1912. Putnam.

The same.....**qr 523.8 Mr8**

"List of books," p.144-146.

Author's purpose is to present a popular guide "with astronomy left out." The practical advice on selection and use of instruments and the simplicity of the star maps make this one of the best books available for the novice.

Olcott, William Tyler.

523.8 O23

Star lore of all ages; a collection of myths, legends and facts concerning the constellations of the northern hemisphere. 1911. Putnam.

"Bibliography," p.21-22.

Interesting and instructive history, dealing separately with each important constellation and the traditions concerning it.

Russell, Henry Norris.

qr 523.81 R91

Determinations of stellar parallax; based upon photographs taken at the Cambridge observatory by A. R. Hinks and the writer, with magnitudes and spectra determined at the Harvard College observatory under the direction of E. C. Pickering. 1911. (Carnegie Institution of Washington. Publication no.147.)

Schlesinger, Frank.

r 523.81 S34

Photographic determinations of stellar parallax made with the Yerkes refractor. [1911. Pittsburgh.]

Reprinted from v.32, 33 and 34 of the "Astrophysical journal."

Burnham, Sherburne Wesley. qr 523.83 B93
Measures of proper motion stars made with the 40-inch refractor of the Yerkes Observatory in the years 1907 to 1912. 1913. (Carnegie Institution of Washington. Publication no.168.)

Campbell, William Wallace. 523.83 C16
Stellar motions, with special reference to motions determined by means of the spectrograph. 1913. Yale University Press. (Yale University. Silliman memorial lectures.)

Refers particularly to work of the author and his associates at the Lick Observatory. Discusses theories and methods used in measurement of radial velocities of stars, and considers problems that have arisen in connection with the results obtained.

Barnard, Edward Emerson. qr 522.1 C13 v.11
Photographs of the Milky way and of comets, made with the six-inch Willard lens and Crocker telescope during the years 1892-95. 1913. (In California University—Lick Observatory. Publications, v.11.)

Peters, Christian Henry Frederick, & Knobel, E. B. qr 523.89 P45
Ptolemy's catalogue of stars; a revision of the *Almagest*. 1915. (Carnegie Institution of Washington. Publication no.86.)

"Notes on the manuscripts of the *Almagest*," p.19-23.

Ptolemy's "*Almagest*," though based on an earlier work by Hipparchus, contains the most ancient star catalogue now in existence. This revision lists 1,028 stars.

Proctor, Richard Anthony. r 523.89 P96n
New star atlas for the library, the school and the observatory in 12 circular maps (with two index plates), intended as a companion to Webb's "*Celestial objects for common telescopes*," with a letterpress introduction on the study of the stars. Ed.16. 1891. Longmans.

525 Earth

Poynting, John Henry. 525 P87
The earth; its shape, size, weight and spin. 1913. Cambridge University Press. (Cambridge manuals of science and literature.)
Brief but excellent scientific manual.

United States—Coast and geodetic survey. r 525.68 U25
Description of the U. S. coast and geodetic survey tide-predicting machine no.2. 1915. (Special publication no.32.)

526 Geodesy

Smithsonian Institution. r 506 S66m v.35
Smithsonian geographical tables; prepared by R. S. Woodward. 1894. (In its Miscellaneous collections, v.35.)

Hugershoff, Dr. r 526.2 H93
Anleitung zum gebrauch geodätischer instrumente der firma Gustav Heyde in Dresden. 1911.

United States—Geological survey. **r 557.3 U25b**

Results of primary triangulation and primary traverse, 1898-1912. 1907-14. (In its Bulletin, no.310, 440, 551-552.)

Bulletin 552 covers results of triangulation and primary traverse in Ohio for 1898-1911, for other states the period covered is 1905/06-1912.

For other volumes see preceding catalogue, v.6.

Baldwin, Albert Le Seur. **qr 526.4 B19**

The California-Washington arc of primary triangulation. 1913. (United States—Coast and geodetic survey. Special publication no.13.)

Bowie, William. **qr 526.4 B66**

The Texas-California arc of primary triangulation. 1912. (United States—Coast and geodetic survey. Special publication no.11.)

Mourhess, Charles A. **qr 526.4 M94**

Triangulation on the coast of Texas from Sabine pass to Corpus Christi bay. 1913. (United States—Coast and geodetic survey. Special publication no.17.)

United States—Coast and geodetic survey. **qr 526.4 U25p**

Primary triangulation on the 104th meridian and on the 39th parallel in Colorado, Utah and Nevada, by William Bowie. 1914. (Special publication no.19.)

United States—Coast and geodetic survey. **qr 526.4 U25tc**

Triangulation along the Columbia river and the coasts of Oregon and northern California, by C. A. Mourhess. 1915. (Special publication no.31.)

United States—Coast and geodetic survey. **qr 526.4 U25**

Triangulation along the west coast of Florida, by C. H. Swick. 1913. (Special publication no.16.)

United States—Coast and geodetic survey. **qr 526.4 U25t**

Triangulation in Alabama and Mississippi, by W. F. Reynolds. 1915. (Special publication no.24.)

United States—Coast and geodetic survey. **qr 526.4 U25tw**

Triangulation in West Virginia, Ohio, Kentucky, Indiana, Illinois and Missouri, by A. L. Baldwin. 1915. (Special publication no.30.)

Ingram, Edward Lovering. **526.5 I24**

Geodetic surveying and the adjustment of observations (method of least squares). 1911. McGraw.

"Bibliography," p.374-376.

Author is (1911) professor of railroad engineering and geodesy, University of Pennsylvania. He prepared this book after having failed to find one that satisfactorily met the requirements for instruction of civil engineering students.

United States—Coast and geodetic survey. **r 526.5 U25**

Application of the theory of least squares to the adjustment of triangulation, by O. S. Adams. 1915. (Special publication no.28.)

Latitude. Longitude. Azimuth

United States—Coast and geodetic survey. qr 526.6 U253d

Determination of time, longitude, latitude and azimuth, by William Bowie. Ed.5. 1913. (Special publication no.14.)

The same, by J. F. Hayford. [Ed.4.] 1898. (In its Report of the superintendent, 1898, p.261-407.).....qr 526 U25 1898

The same, by C. A. Schott. [Ed.3.] 1880. (In its Report of the superintendent, 1880, p.201-286.).....qr 526 U25 1880

United States—Coast and geodetic survey. qr 526.6 U253

Formulae and tables for the computation of geodetic positions, with a preface by C. R. Duvall. Ed.5. 1911. (Special publication no.8.)

Ross, Frank Elmore. qr 526.61 R73

Latitude observations with photographic zenith tube at Gaithersburg, Md., by F. E. Ross in cooperation with the International Geodetic Association. 1915. (United States—Coast and geodetic survey. Special publication no.27.)

United States—Coast and geodetic survey. r 526.62 U25

Determination of the difference in longitude between each two of the stations Washington, Cambridge and Far Rockaway, by Fremont Morse and O. B. French. 1916. (Special publication no.35.)

United States—Hydrographic office. qr 526.63 U251

Line of position tables for working sight of heavenly body for line of position by the cosine-haversine formula, Marcq Saint Hilaire method. 1915. (Publications, no.171.)

Gravity

Hayford, John Fillmore, & Bowie, William. qr 526.7 H37

Effect of topography and isostatic compensation upon the intensity of gravity. 2v. 1912. (United States—Coast and geodetic survey. Special publication no.10, 12.)

v.2 is by William Bowie alone.

Map projections

Dickson, Henry Newton. 526.8 D55

Maps; how they are made, how to read them. 1912. Bacon.

Bibliography, p.66.

Brief, moderately technical manual.

Dwerryhouse, Arthur Richard. 526.8 D97

Geological and topographical maps; their interpretation and use; a handbook for the geologist and civil engineer. 1911. Arnold.

Very instructive book. Discusses structural features of the earth's crust, the conventional methods of representing geological structure, and the elucidation of geological history from maps. Topography is dealt with but sparingly, and is introduced primarily because of its bearing on the making of geological maps. Has particular reference to maps of the British ordnance survey and of the geological surveys of the British Isles, but is almost equally useful in studying maps of other countries. Commends and describes briefly the maps of the United States geological survey.

- Grieves, Loren Chester.** q 526.8 G89
Military sketching and map reading for non-commissioned officers. 1915. U. S. Infantry Assoc.
- Sherrill, Clarence Osborne.** r 526.8 S55
Military map reading. Ed.2. 1911. [Banta.]
Adopted by the War department for use by the organized militia and at the Army service schools, Fort Leavenworth, Kansas.
Explanation of methods, and exercises in scaling distances, representation of elevations, use of conventional signs, and using maps in the field. Part of author's "Military topography" (526.8 S55).
- United States—Geological survey.** qr 526.8 U25
Conventional signs adopted by the United States geographic board. 1911.
- United States—War department.** r 526.8 U253
Military map reading; appendix [to] "Manual for noncommissioned officers and privates of infantry of the organized militia and volunteers of the United States, 1914." 1915.

Surveying

- Ainslie, John.** r 526.9 A29
Treatise on land surveying; a new and enlarged edition embracing railway, military, marine & geodetical surveying by William Galbraith. Enl. ed. 1849. Blackwood.
- Gannett, Samuel Stinson, comp.** r 557.3 U25b
Geographic tables and formulas. Ed.4. 1916. (In United States—Geological survey. Bulletin no.650.)
- Gillespie, William Mitchell.** r 526.9 G41
Treatise on land-surveying. Ed.2. 1855. Appleton.
An enlarged edition is published under title "Treatise on surveying."
- McCullough, Ernest.** 526.9 M14
Practical surveying, for surveyors' assistants, vocational and high schools. 1915. Van Nostrand.
Clear exposition, limited to plane surveying, with chief attention to land surveying methods and brief treatment of engineering surveying. For students with no mathematics beyond the arithmetic taught in grade schools. One chapter devoted to trigonometry gives merely what wide experience has shown to be an indispensable minimum. Appendix gives essentials of algebra.
- Pence, William David, & Ketchum, M. S.** 526.9 P38a
Surveying manual; a manual of field and office methods for the use of students in surveying. Ed.4. 1915. McGraw.
While designed primarily to supplement the more elaborate treatises, this book is sufficient for an elementary course. Designed to give immediate familiarity with approved methods of surveying, and to cultivate skill in keeping good field notes and in calculation.
- Raymond, William Galt.** 526.9 R24
Plane surveying, for use in the classroom and field. [Ed.2, rewritten.] 1914. Amer. Book Co.
- United States—Coast and geodetic survey.** r 526.9 U253m
Military and naval service of the United States coast survey, 1861-1865. 1916. (Special publication no.37.)

United States—Coast and geodetic survey. r 526.9 U253a
 United States coast and geodetic survey; description of its work, methods and organization. 1915. (Special publication no.23.)

United States—Geological survey. r 526.9 U2532
 Topographic instructions of the United States geological survey. 1913.

Surveying instruments

Bausch & Lomb Optical Co. r 526.91 B32
 Metro manual; a hand book for engineers, containing technical information regarding the construction, adjustment and use of transits, tachymeters, theodolites, alidades, levels, etc. 1915.

"Solar ephemeris and calendar for 1916, to accompany Metro manual" in pocket at end.

Boileau, John Theophilus, comp. 526.91 B59

New and complete set of traverse tables, showing the differences of latitude and the departures to every minute of the quadrant, and to five places of decimals; with other tables useful to the surveyor and civil engineer. Ed.12, rev. 1908. Van Nostrand.

The same. Ed.14. pref. 1876.....r 526.91 B59

Gurley (W. & L. E.), Troy, N. Y. r 526.91 G97

Manual of the principal instruments used in American engineering and surveying, manufactured by W. & L. E. Gurley, Troy, N. Y. Ed.47. 1914.

Trade catalogue containing useful technical information.

United States—Coast and geodetic survey. qr 526.91 U253

Plane table manual, by D. B. Wainwright. 1915.

Being a reprint, with corrections, Jan. 1915, of appendix no.7 to Report of survey for 1905.

The same. 1899. (In its Report, 1898, p.409-462.)...qr 526 U25 1898

Geodetic surveying

Cary, Edward Richard. 526.95 C24

Geodetic surveying. 1916. Wiley.

"References," p.271-272.

First-class text-book, presenting concisely many of the methods used by the United States coast and geodetic survey. Appendixes include geodetic astronomy and least squares.

United States—Coast and geodetic survey. qr 526.95 U25f

Fourth general adjustment of the precise level net in the United States and the resulting standard elevations, by William Bowie and H. G. Avers. 1914. (Special publication no.18.)

United States—Coast and geodetic survey. qr 526.95 U25h

Precise leveling from Brigham, Utah to San Francisco, California, by William Bowie. 1914. (Special publication no.22.)

United States—Coast and geodetic survey. qr 526.95 U25

Results of observations made at the Coast and geodetic survey magnetic observatories, 1911-14, by D. L. Hazard. v.6-7; v.8, pt.1-2. 1913-16.

For v.1-5 see preceding catalogue, v.6.

Topographical drawing

Smith, Richard Somers. r 526.98 S65

Manual of topographical drawing. Ed.2. 1859. Wiley.

Wilson, Herbert Michael. 526.98 W76

Topographic, trigonometric and geodetic surveying, including geographic, exploratory and military mapping, with hints on camping, emergency surgery and photography. Ed.3, rev. 1912.

"Reference works on topography," p.490-494.

Mine surveying

Brough, Bennett Hooper. r 526.99 B77a

Treatise on mine-surveying. Ed.13, rev. 1908.

Bibliography, p.364-366.

Durham, Edward Benjamin. 526.99 D94

Mine surveying. 1913. McGraw.

Treatment is satisfactory and in convenient form. Describes practice and details of underground surveying, tunnel surveys, exploratory and magnetic surveys.

Survey of oyster bars

United States—Coast and geodetic survey. qr 526.99 U25

Survey of oyster bars, Maryland; description of boundaries and landmarks and report of work of United States coast and geodetic survey in cooperation with Maryland shell fish commission, by C. C. Yates.

v.11-13. 1912-13.

v.11. Talbot county.

v.12. Dorchester county.

v.13. Summary.

For v.1-10 see preceding catalogue, v.6.

Hydrographic surveying

United States—Coast and geodetic survey. r 526.99 U25wa

Wire-drag work in Alaska, by L. O. Colbert and J. A. Daniels. 1916. (Special publication no.34.)

United States—Coast and geodetic survey. qr 526.99 U25w

Wire-drag work on the Atlantic coast, by N. H. Heck and J. H. Hawley. 1915. (Special publication no.29.)

527 Navigation

Bowditch, Nathaniel. qr 527 B66a2

American practical navigator; an epitome of navigation and nautical astronomy; re-edited and published in the United States hydrographic office. 1914. (United States—Hydrographic office. [Publications], no.9.)

Traverse tables, p.507-945.

Compendium of information for navigators. It contains explanations of all the ordinary methods of determining the ship's position at sea, together with all the tables necessary for using them; also descriptions of instruments used in navigation, methods of making hydrographic surveys, charts, etc.

Bowditch, Nathaniel.

qr 527 B66a

Useful tables from the American practical navigator [rev. in 1910 under the direction of the Bureau of equipment, Navy department]. 1911.

"Traverse tables," p.515-620.

Published by the United States hydrographic office.

Poor, Charles Lane.

527 P79

Nautical science in its relation to practical navigation, together with a study of the tides and tidal currents. 1910. Putnam.

"Intended for the general reader as well as for the practical navigator. It is an attempt to explain in non-technical language and without the use of complicated mathematical formulas the fundamental facts and principles that form the basis of all navigational methods." *Preface.*

Sound and scholarly. Treatment of tides and tidal currents is exceptionally good.

Thompson, Peter.

527 T38

Navigation; a method of finding a ship's position at sea by one observation only, for officers in the mercantile marine and yachtsmen. 1913. Longmans.

530 Physics

Anderson, William Ballantyne.

530 A55

Physics for technical students. v.1. 1914. McGraw.

v.1. Mechanics and heat.

Lays emphasis on fundamental principles, but largely as introductory to practical applications.

Byrom, Thomas Henry.

530 B99

Physics and chemistry of mining; an elementary class-book for the use of mining students. Ed.2, rev. 1912. Lockwood.

Applies to coal mining particularly. Gives elementary facts concerning the atmosphere, mine gases, explosives, composition of fuels, and the effects of temperature, pressure and moisture on gases.

Columbia University, New York.

qr 530 C72

Publication of the Ernest Kempton Adams fund for physical research. no.3-7. 1912-15.

For no.1-2 see preceding catalogue, v.6.

Duff, Alexander Wilmer, ed.

530 D87a2

Text-book of physics. Ed.3, rev. 1913. Blakiston. (Blakiston's science series.)

Contents: Mechanics and the properties of matter, by A. W. Duff.—Wave motion, by E. P. Lewis.—Heat, by C. E. Mendenhall.—Electricity and magnetism, by A. P. Carman.—Conduction of electricity through gases and radio-activity, by R. K. McClung.—Sound, by William Hallock.—Light, by E. P. Lewis.

"References" at the end of each chapter.

"Represents the attempt of seven experienced teachers of college physics to prepare a text-book that would be more satisfactory to all of them than any existing one." *Preface.*

Edser, Edwin.

530 E29

General physics for students; a text-book on the fundamental properties of matter. 1911. Macmillan.

Comprehensive and excellent text-book for students beyond the elementary stage. Avoids use of higher mathematics as far as possible.

Galileo.

r 530 G14

Dialogues concerning two new sciences; tr. from the Italian and Latin into English by Henry Crew and Alfonso de Salvio, with an introduction by Antonio Favaro. 1914. Macmillan.

Contains facsimile of original title-page, Leyden, 1638.

On strength of materials, cohesion, rectilinear motion and motion of projectiles. A recognized classic in physics. Contains virtually all that Galileo wrote on mechanics and engineering. Two previous English translations are out of print.

Ganot, Adolphe.

r 530 G16i

Introductory course of natural philosophy, for the use of schools and academies; ed. from Ganot's "Popular physics" by W. G. Peck. 1871. Barnes.

Khvol'son, Orest Daniilovich.

qr 530 K24

Traité de physique; ouvrage tr. sur les éditions russe & allemande par E. Davaux, avec des additions et des notes par E. Cosserat [et] F. Cosserat. 4v. in 8. 1906-13.

"Bibliographie" at end of chapters.

v.1, pt.1, is ed.2, rev. & enl.

Considered by many authorities to be the best existing text-book of physics. Though not more comprehensive than some others, it is characterized by judicious selection of material and bears evidence of the critical judgment of the author, who is thoroughly conversant with the various branches of physical science and as fully in touch with recent developments as with those which have become classical.

"It would be hard to find a book in which good arrangement and accurate statement are attained with so little in the way of mathematical difficulties." *Science*, 1904.

Meads, Simeon P.

r 530 M55

Elements of physics for use in secondary schools. 1895. Silver.

Millikan, Robert Andrews, & Gale, H. G.

530 M69a

First course in physics. Rev. ed. 1913. Ginn.

Suitable for high school work. Intended to give "a simple and immediate presentation, in language which the student already understands, of the hows and whys of the physical world in which he lives." Well illustrated. Authors are connected (1913) with the University of Chicago.

Norton, Sidney Augustus.

r 530 N46

Elements of natural philosophy. 1870. Wilson.

Parker, Richard Green.

r 530 P24

School compendium of natural and experimental philosophy, containing also a description of the steam and locomotive engines and of the electro-magnetic telegraph. Enl. ed. 1858. Barnes.

Pouillet, Claude Servais Mathias.

r 530 P86

Lehrbuch der physik und meteorologie, für deutsche verhältnisse frei bearbeitet von Joh. Müller. Ed.4, rev. & enl. 2v. 1853.

Pynting, John Henry, & Thomson, Sir J. J.

530 P87

Text-book of physics. v.4, pt.1-2. 1914. Griffin.

v.4, pt.1-2. Electricity and magnetism: static electricity and magnetism.

"Characterised throughout by the absence of obscure and inconclusive reasoning such as is sometimes found in treatises dealing with intricate problems in an elementary manner, by the employment of sound yet simple mathematical methods, and by the inclusion of accounts of recent work not to be found in other books of the same class." *Nature*, 1900.

For v.1-3 see preceding catalogue, v.6.

Quackenbos, George Payn. r 530 Q12

Natural philosophy, embracing the most recent discoveries in the various branches of physics and exhibiting the application of scientific principles in every-day life; adapted to use with or without apparatus. 1860. Appleton.

Sharpless, Isaac, & Philips, G. M. r 530 S53

Natural philosophy [written] with the assistance of C. C. Balderson. Rev. ed. 1892. Lippincott.

Shaw, Edward Richard. r 530 S534

Physics by experiment; an elementary text-book for the use of schools. 1894. Maynard.

Wilson, Harold Albert. 530 W76

Experimental physics; a text-book of mechanics, heat, sound and light. 1915. Cambridge University Press.

Contents: Mechanics and properties of matter.—Heat.—Sound.—Light.

Theory. Matter

Ames, Joseph Sweetman. 530.1 A51

The constitution of matter. 1913. Houghton. (Northwestern University. N. W. Harris lectures for 1913.)

Treatment is scientific but remarkably clear, and as far as possible divested of mathematical expression. Author is (1913) professor of physics at Johns Hopkins University.

"There are few if any other men whose grasp of both the facts and theories of physics is sufficiently comprehensive to enable them to discuss with such freshness, thoroughness and insight so many of the problems raised by recent investigations." *R. A. Millikan, in Science, 1914.*

Soddy, Frederick. 530.1 S67

Matter and energy. 1912. Holt. (Home university library of modern knowledge.)

"Bibliography," p.254.

Popular, well reasoned presentation of the nature and properties of matter and the various manifestations of energy.

Essays

Kohlrausch, Friedrich. r 530.4 K35

Gesammelte abhandlungen; hrsg. von Wilhelm Hallwachs [und anderen]. 2v. 1910-11.

v.1. Elastizität, wärme, optik, absolute elektrische messungen und verschiedenes.

v.2. Elektrolyte; elektrolytische leitung, leitvermögen und polarisation, physik der lösungen.

"Nach der zeit der veröffentlichung geordnetes verzeichnis der wissenschaftlichen arbeiten von Friedrich Kohlrausch," v.1, p.17-34, v.2, p.15-32.

Complete name and subject index; a classified list and a chronological list of author's publications.

Owen, David. 530.4 O34

Recent physical research; an account of some recent contributions to experimental physics. [1913.] "The Electrician" Printing and Pub. Co.

Contents: Positive rays.—Rutherford's work on the a-particle.—Curie's work on magnetism.—The aurora.—Brownian movements.—The pressure of radiation.—Short

Owen, David—*continued*.

530.4 O34

electric waves and long heat waves.—Free electrons in metals.—Magnetic bodies composed of non-magnetic elements.

Describes recent work of a number of investigators.

Appeared originally in "Electrician," 1910 and later.

Planck, Max.

r 530.4 P68

Acht vorlesungen über theoretische physik, gehalten an der Columbia University in the city of New York im frühjahr 1909. 1910.

Rayleigh, John William Strutt, baron.

qr 530.4 R24

Scientific papers. v.4-5. 1903-12.

v.4. 1892-1901.

v.5. 1902-10.

For v.1-3 see preceding catalogue, v.1.

Periodicals

r 530.5 A61

Annales de physique [monthly], 1914-date. v.1-date. 1914-date.

Formed Jan. 1914 by the division of "Annales de chimie et de physique" into "Annales de chimie" and "Annales de physique."

Berlin, Deutsche Physikalische Gesellschaft.

r 530.5 B45

Verhandlungen [semimonthly], 1912-date. 14. jahrgang-date. 1912-date.

——Halbmonatliches literaturverzeichnis der "Fortschritte der physik," 1912-date. 11. jahrgang-date. 1912-date.....r 530.5 B45a

Harvard University—Jefferson physical laboratory.

r 530.5 H33

Contributions, 1903-15. v.1-12. [1904?-15?]

Beginning with v.12, 1915, contributions from the Cruft high-tension electrical laboratory are included.

Annual record of the published contributions to physical science by the professors, instructors and graduate students of the Department of physics, Harvard University.

Michigan University.

qr 530.5 M66

Contributions from the physical laboratory. no.1-date. 1913-date.

qr 530.5 P533

Physikalische zeitschrift [semimonthly], 1913-date. v.14-date. 1913-date.

Experiments. Study and teaching

Hopkins, William John, b. 1863.

r 530.7 H786

Preparatory physics; a short course in the laboratory. 1894. Longmans.

Mann, Charles Riborg.

530.7 M33

Teaching of physics for purposes of general education. 1912. Macmillan. (Teachers' professional library.)

"Bibliography," p.291-299.

Careful inquiry into the place and importance of physics in education. Aims to show how the subject may be made of both vocational and cultural value.

- Pepper, John Henry.** 530.7 P41a
 Boy's playbook of science; rev., rewritten with many additions by John Mastin. 1912. Routledge.
The same.....j 530.7 P41a
The same; rev. with many additions by T. C. Hepworth. [Rev. & enl. ed. 1881.] Routledge.....r 530.7 P41
 Title reads "Boy's book of science."
- Pickering, Edward Charles.** r 530.7 P54
 Elements of physical manipulation. v.1. 1873. Hurd.
- Wiedemann, Eilhard Ernest Gustav, & Ebert, Hermann.** r 530.7 W68
 Physikalisches praktikum, mit besonderer berücksichtigung der physikalisch-chemischen methoden. Ed.3, enl. 1897.
 Directions given in detail, and underlying principles explained.

Physical measurements

- Chevallier, A. F. & Müntz, Achille.** r 530.8 C42
 Problèmes de physique avec leurs solutions développées à l'usage des candidats au baccalauréat ès sciences et aux écoles du gouvernement; deuxième édition, revue et augmentée par Ch. de Villedeuil. 1885.
 Collection of 254 problems, with complete solutions.
- Goodwin, Harry Manly.** 530.8 G63
 Elements of the precision of measurements and graphical methods. 1913. McGraw.
 Largely concerned with considerations of allowable error and effects of sources of error on results. Treatment is brief.
- Guyot, Arnold.** r 530.8 G99
 Tables, meteorological and physical, prepared for the Smithsonian Institution. Ed.3, rev. & enl. 1859. (Smithsonian Institution. Miscellaneous collections, v.1.)
The same. (In Smithsonian Institution. Miscellaneous collections, v.1.).....r 506 S66m v.1
- Henderson, William D.** r 530.8 H44
 Problems in physics for technical schools, colleges and universities. 1916. McGraw.
 Collection of 1,025 practical problems, classified under the various branches of elementary physics. Includes brief tables of physical constants.
- Knox, Joseph.** 530.8 K35
 Physico-chemical calculations. [1912.] Methuen.
 Essentially a rearrangement and enlargement of Abegg and Sackur's "Physikalisch-chemische rechen-aufgaben." Consists largely of problems in physical chemistry, arranged by subjects and preceded by brief explanations of theory involved.
- Palmer, Albert De Forest.** 530.8 P19
 Theory of measurements. 1912. McGraw.
 Not concerned with methods of measurement but wholly with theory. Deals largely with consideration of accidental errors and least squares.
 "As a well planned and well written treatise for the scientific laboratory investigator, the book will have a permanent place." *Engineering news*, 1913.

Smithsonian Institution.

r 506 S66m v.63

Smithsonian physical tables, prepared by F. E. Fowle. Ed.6, rev. 1914. (In its Miscellaneous collections, v.63, no.6.)

The same, prepared by F. E. Fowle. Ed.5, rev. 1910. (In its Miscellaneous collections, v.58, no.1.).....r 506 S66m v.58

The same, prepared by Thomas Gray. 1896. (In its Miscellaneous collections, v.35.).....r 506 S66m v.35

qr 530.8 T11

Tables annuelles de constantes et données numériques de chimie, de physique et de technologie, 1910-12. v.1-3. 1912-14.

Publiées sous le patronage de l'Association Internationale des Académies, par le Comité international nommé par le septième Congrès de chimie appliquée.

r 530.8 T22

Taschenbuch für mathematiker und physiker; unter mitwirkung zahlreicher fachgenossen hrsg. von Felix Auerbach und Rudolf Rothe, 1911, 1913. 2.-3. jahrgang. 1911-13.

Contains good bibliographies of physics and mathematics for the current year.

United States—Standards, Bureau of.

r 530.8 U25n

The national Bureau of standards. 1911.

Twenty-four page pamphlet outlining activities.

United States—Standards, Bureau of.

qr 530.8 U25t

Technologic papers. no.1-date. 1911-date.

United States—Standards, Bureau of.

qr 530.8 U25to

Tolerances and specifications for weights and measures, and weighing and measuring devices, as adopted by the 10th annual conference on the weights and measures of the United States, May 25-28, 1915. 1915.

Zeleny, Anthony, & Erikson, H. A.

530.8 Z44

Manual of physical measurements. Ed.3. 1912. McGraw.

Experiments are carefully analyzed so that theory as well as manipulation is taught.

History**Schuster, Arthur.**

530.9 S39

Progress of physics during 33 years (1875-1908); four lectures delivered to the University of Calcutta during March 1908. 1911. Cambridge University Press.

Aims to trace the changes in scientific thought rather than to give a historical account of the discoveries which make this period memorable.

531 Mechanics

For Mechanical engineering, see 621

Ball, Sir Robert Stawell.

531 B21

Meccanica; traduzione di Jacopo Benetti. Ed.5, rev. 1908.

Hoskins, Leander Miller.

r 531 H82

Theoretical mechanics; an elementary text-book. Ed.3. 1907. Privately printed.

Johnson, Valentine Edward. j 531 J36
 Mechanics and some of its mysteries. 1912. Hodder. (Playbooks of science.)

Contents: Properties of matter.—Specific gravity.—Centre of gravity.—Spinning tops and the dynamics of rotation.—The gyroscope.—The boomerang.—Designographs.—Pendulums.—Linkages and pantagraphs.

"Of the various experiments described a large number are original... They have almost without exception been personally performed by the author and every one is quite practicable if due care and a little patience be exercised." *Preface.*

Kelvin, William Thomson, baron, & Tait, P. G. 531 K17
 Elements of natural philosophy. 1894. Cambridge University Press.

"The work consists, in great part, of the large-type, or non-mathematical, portion of our 'Treatise on natural philosophy.'" *Preface.*

Kelvin, William Thomson, baron, & Tait, P. G. r 531 K17
 Treatise on natural philosophy. 2 pts. in 2v. 1912. Cambridge University Press.

Keown, Robert McArdle. 531 K19
 Mechanism. 1912. McGraw.

"Aim has been to cover the subject of mechanism as briefly, simply and clearly as possible... No especial claim to originality of subject matter can be made... The arrangement and method of treatment are new." *Preface.*

Mach, Ernst. 531 M16
 Science of mechanics; a critical and historical account of its development; tr. from the German by T. J. McCormack. Ed.3, rev. & enl. 1907. Open Court Pub. Co.

—Supplement to the third English edition containing the author's additions to the seventh German edition; tr. and annotated by P. E. B. Jourdain. 1915..... 531 M16a

Martin, Louis Adolphe. 531 M42
 Text-book of mechanics. v.4-6. 1913-16. Wiley.

v.4. Applied statics.

v.5. Hydraulics.

v.6. Thermodynamics.

Designed as an introductory course to applied mechanics, based on that given at Stevens Institute of Technology. Treatment requires an increasing knowledge of mathematics.

For v.1-3 see preceding catalogue, v.6.

Maurer, Edward Rose. 531 M49

Technical mechanics. Ed.3, rewritten. 1914. Wiley.

Well written, rather complete treatise on theoretical mechanics for students of engineering.

Morin, Arthur Jules. r 531 M89

Fundamental ideas of *mécanique* and experimental data; rev., tr. and reduced to English units of measure by Joseph Bennett. 1860. Appleton.

Poisson, Siméon Denis. r 531 P75

Traité de mécanique. 2v. 1811.

Was for a long time a standard work. Intended to form part of an extensive work on mathematical physics, which author did not live to complete.

Prescott, John. 531 P92

Mechanics of particles and rigid bodies. 1913. Longmans.

Covers subject of mechanics, exclusive of hydromechanics. Treatment largely mathematical. Many problems given and worked out.

- Slocum, Stephen Elmer.** 531 S63
Theory and practice of mechanics. 1913. Holt.
Text-book in which the theoretical principles developed are applied to the solution of practical engineering problems.
- Webster, Arthur Gordon.** 531 W38
Dynamics of particles and of rigid, elastic and fluid bodies; lectures on mathematical physics. Ed.2. 1912. Teubner. (Sammlung von lehrbücher auf dem gebiete der mathematischen wissenschaften, mit einchluss ihrer anwendungen, v.II.)
"List of works consulted by the author," p.12.
Excellent text-book of the mathematics necessary for the advanced physicist.
"By far the best suited of all books known to the reviewer to be placed in the hands of physical students either in universities or in the higher grades of technical schools." *Physical review*, 1905.
- Ziwet, Alexander, & Field, Peter.** 531 Z72i
Introduction to analytical mechanics. 1912. Macmillan.
Thorough and rather advanced text-book, with leaning toward abstract dynamics.

Kinematics

- Searle, George Frederick Charles.** 531.1 S43
Experimental harmonic motion; a manual for the laboratory. 1915. Cambridge University Press. (Cambridge physical series.)
- Woods, Arthur Tannatt, & Stahl, A. W.** r 531.1 W86
Elementary mechanism; a text-book for students of mechanical engineering. Ed.13. 1903. Van Nostrand.
- Carmichael, Robert Daniel.** 531.18 C21
The theory of relativity. 1913. Wiley. (Mathematical monographs, no.12.)
"There has arisen within modern physics itself a new movement—that associated with the theory of relativity—which is capable of contributing most effectively to the construction of a more satisfactory foundation for its superstructure of theory." *Introduction*.
Treatment is comparatively non-mathematical, and deals with the fundamental conceptions of space, time and mass.
- Laue, Max.** r 531.18 L36
Das relativitätsprinzip. Ed.2, enl. 1913. (Die wissenschaft.)
"Literatur," p.266-270.
Highly mathematical treatment of a modern theory that has aroused great interest.

Graphic statics

- Herrmann, Gustav.** 531.2 H47
The graphical statics of mechanism; a guide for the use of machinists, architects and engineers. Ed.6. 1908. Van Nostrand.
- Crawford, W. J.** 531.25 C87
Elementary graphic statics. 1911. Griffin.
Short course, with experiments and many problems. Designed especially for British students.

Dynamics

Gray, Andrew, & Gray, J. G. 531.3 G81

Treatise on dynamics, with examples and exercises. 1911. Macmillan.

"Written to provide a discussion of higher dynamics suitable for students of engineering, physics or astronomy." *Preface.*

"Of much more than academic interest; as problems of great practical importance are dealt with, it should appeal both to the mathematician and the man of affairs." *Science progress, 1912.*

Lanza, Gaetano. 531.3 L29

Dynamics of machinery. 1911. Wiley.

The same.....r 531.3 L29

"Has for its chief object to bring together, in one volume, the methods of dealing with the inertia forces that arise in various kinds of machinery, especially in cases where high speeds are employed." *Preface.*

Stringham, Albert Warren. qr 531.34 S91

Transferring forces "around the corner." 1916. [Sperry Gyroscope Co. Employees.]

Contents: Résumé.—Introduction.—Construction of the gyro demonstrator.—First commercial application of the gyroscope.—The compass without a needle.—Harnessing a gyro wheel.—The automatic pilot.—Aeroplane drift.—The pallograph.—The Sperry gyroscopic compass.—The Sperry searchlight.—Organization of the Sperry Gyroscope Company.—"Boxing the compass," by A. E. Gott.—"Jerry wiring," by A. E. Gott.—Biography: Elmer Ambrose Sperry.

Includes advertising matter.

Gravitation

Tarleton, Francis Alexander. 531.51 T21

Introduction to the mathematical theory of attraction. v.2. 1913. Longmans.

For v.1 see preceding catalogue, v.1.

Energy

Gibson, Arnold Hartley. 531.61 G36

Natural sources of energy. 1913. Cambridge University Press. (Cambridge manuals of science and literature.)

"Bibliography," p.129.

Deals very briefly with utilization of fuels, water-power, solar energy and wind power.

Integrgraph. Dynamometer

Abakanowicz, Bruno. r 531.721 A11

Les intégraphes, la courbe intégrale et ses applications; étude sur un nouveau système d'intégrateurs mécaniques. 1886.

Benedict, Francis Gano, & Cady, W. G. qr 531.781 B43

A bicycle ergometer with an electric brake. 1912. (Carnegie Institution of Washington. Publication no.167.)

Describes construction and use of improved device for measurement and computation of mechanical efficiency of the human body.

532 Hydraulics

- Barton, Edwin Henry.** 532 B28
Introduction to the mechanics of fluids, with diagrams and examples. 1915. Longmans.
Text-book, broad in scope, attempting a rigorous treatment without use of calculus.
- Dunstan, Albert Ernest, & Thole, F. B.** 532.13 D92
The viscosity of liquids. 1914. Longmans. (Monographs on inorganic and physical chemistry.)
"References," p.87-89.
Records the historical development and present knowledge of viscosity measurement, considering liquid mixtures, electrolytic solutions and colloids, and the relation between viscosity and chemical constitution.
- Blum, Charles.** q 532.5 B56
Fire department hydraulic problems and how to work them, for civil service examinations for all ranks and as a practical guide in the performance of every-day duty. 1916. Civil Service Chronicle.
- Box, Thomas.** r 532.5 B665
Practical hydraulics; a series of rules and tables for the use of engineers, &c. 1868. Baird.
- Daugherty, Robert Long.** 532.5 D28
Hydraulics. 1916. McGraw.
Brief text confined to general fundamental principles, with avoidance of all special cases, and little attention to applications.
- Hauber, Wilhelm.** 532.5 H34
Hydraulik. 1908.
"Literaturverzeichnis," p.135-136.
- Hughes, Hector James, & Safford, A. T.** 532.5 H89
Treatise on hydraulics. 1913. Macmillan.
Text-book. Omits design of hydraulic machinery and water-power plants. Presents approved methods of solving hydraulic problems, points out limitations of empirical formulas, indicates present (1911) state of practice and discusses difficulties likely to arise.
- Lea, Frederick Charles.** 532.5 L44
Hydraulics for engineers and engineering students. Ed.2. 1907. Longmans.
One of the most satisfactory works on the subject. Deals thoroughly with both theory and practice. Stream line motion is dealt with briefly.
- Merriman, Mansfield.** 532.5 M63e
Elements of hydraulics; a text-book for secondary technical schools. 1912. Wiley.
Brief and non-mathematical. Material has been carefully selected.
- Neville, John.** r 532.5 N25
Hydraulic tables, coefficients and formulæ for finding the discharge of water from orifices, notches, weirs, pipes and rivers. Ed.2 [enl.]. 1860-61. Weale.
- Weisbach, Julius.** r 532.5 W46
Die experimental-hydraulik; eine anleitung zur ausführung hydraulischer versuche im kleinen. 1855.

Harper, Joseph H. r 532.54 H28

Hydraulic tables for the flow of water in circular pipes under pressure, timber flumes, open channels and egg-shaped conduits, with much accessory information. 1916. Van Nostrand.

United States—Geological survey. qr 532.57 U25p

Plans and specifications for current-meter gaging stations, Water-resources branch, prepared by C. C. Covert, G. J. Lyon and C. H. Pierce. 1913.

United States—Geological survey. r 532.57 U25

Tables for converting discharge in second-feet per square mile into run-off in depth in inches and discharge in second-feet into run-off in acre-feet. 1910.

Capillary action

Mathieu, Émile Léonard. qr 532.6 M47

Théorie de la capillarité. 1883. (*Traité de physique mathématique*, v.2.)

Mathematical treatment.

Willows, Richard Smith, & Hatschek, Emil. 532.61 W76

Surface tension and surface energy and their influence on chemical phenomena. 1915. Churchill. (*Text-books of chemical research and engineering.*)

Reprinted from the "Chemical world."

Clear, concise presentation of fundamentals, avoiding as far as possible the mathematical calculations usually accompanying the study of this subject.

533 Gases

Barus, Carl. qr 533.15 B28

The diffusion of gases through liquids and allied experiments. 1913. (Carnegie Institution of Washington. Publication no.186.)

Aëronautics

r 533.6 A41

All the world's aircraft (*War flying annual*), 1912, 1916-17; founded by F. T. Jane. 3d, 7th-8th year of issue. 1912-17. Low.

1912. Aeroplanes and dirigibles of the world.—The world's aerial engines.—Aerial trades' directory and "who's who."

1916. Aeroplanes and airships of the world.—Historical aeroplanes of the last 14 years.—The world's aero-engines.

1917. An aeronautical dictionary and some memoranda.—All the world's aeroplanes.—The world's airships.—All the world's aero-engines.—All the world's historical aircraft, 1902-16.

Formerly known as "All the world's airships."

Binder's title reads "Jane's All the world's aircraft."

Collins, Francis Arnold. 533.6 C71s

Second boys' book of model aeroplanes. 1914. Century.

The same.....j 533.6 C71s

Elementary work on construction and flying of small models.

Curtiss, Glenn Hammond, & Post, Augustus. 533.6 C93

Curtiss aviation book. [1913.] Richards.

"Interesting narrative, compelling in its simplicity, directness and vividness, especially where Mr. Curtiss tells of his races abroad." *Engineering news*, 1913.

Glenn Curtiss has been prominently identified with development of the motor-cycle, the aeroplane and the hydroaeroplane. He has written the greater part of this book, which describes his practical work. For popular reading rather than for designers. Contains little of a technical nature.

Eiffel, Alexandre Gustave. qr 533.6 E39

The resistance of the air and aviation; experiments conducted at the Champ-de-Mars laboratory; tr. by J. C. Hunsaker. Ed.2, rev. & enl. 1913. Constable.

"By far the most important addition to the literature of artificial flight which has been made in the English language since aviation assumed its present practical form." *Engineer (London)*, 1913.

Greenhill, Sir George. 533.6 G84

Dynamics of mechanical flight; lectures delivered at the Imperial College of Science and Technology, March 1910 and 1911. 1912. Constable.

Mathematical discussion of some of the problems of flight in heavier-than-air machines.

Hamel, Gustav, & Turner, C. C. 533.6 H19

Flying; some practical experiences. 1914. Longmans.

"Bibliography," p.338.

Practical work on mechanical flight. Discusses qualifications and training of successful aviators, choice of machine, and actual experience in flying under various conditions and with different types of machine.

Hoernes, Hermann. 533.6 H67

Compendium of aviation and aerostation, balloons, dirigibles and flying-machines, with a preface by J. H. Ledeboer. 1911. Griffin.

Brief but comprehensive and satisfactory guide to the natural laws, theory and practice of aeronautics. Considers constructional details and relative advantages of spherical and dirigible balloons, aeroplanes, ornithopters and helicopters.

Hunsaker, Jerome Clarke, and others. r 506 S66m v.62

Reports on wind tunnel experiments in aerodynamics. 1916. (In Smithsonian Institution. Miscellaneous collections, v.62, no.4.)

Langley, Samuel Pierpont. qr 506 S66c v.27 pt.3

Langley memoir on mechanical flight. pt.1-2, in 1. 1911. (In Smithsonian Institution. Contributions to knowledge, v.27, pt.3.)

"References," p.11.

pt.1-2. 1887-1896, by S. P. Langley; ed. by C. M. Manly.—1897-1903, by C. M. Manly.

Results of a notable series of experiments with small models. Follows author's publications on "Experiments in aerodynamics" and "Internal work of the wind," printed in 1891 and 1893, respectively, as parts of v.27 of the Smithsonian Contributions to knowledge.

Maxim, Hudson, & Hammer, W. J. qr 533.6 M52

Chronology of aviation. [1912?]

Reprinted from the "World almanac" for 1911.

Records to the end of 1910.

Miller, Charles M. 533.6 M69k

Kitecraft and kite tournaments. 1914. Manual Arts Press.

"Bibliography of kites," p.142-144.

Construction, decoration and manipulation of kites, balloons, parachutes and model aeroplanes.

Turner, Charles C.

533.6 T86r

Romance of aeronautics; an interesting account of the growth & achievements of all kinds of aerial craft. 1912. Lippincott.

Popular illustrated history, dealing chiefly with modern developments.

Verrill, Alpheus Hyatt.

533.6 V28

Harper's aircraft book; why aeroplanes fly, how to make models and all about aircraft, little and big. 1913. Harper. (Harper's practical books for boys.)

Simple but comprehensive book for boys. Explains construction of racing models, gliders, aeroplanes and hydroaeroplanes, with use of dimensions, diagrams and illustrations.

Zahm, Albert Francis.

533.6 Z18

Aërial navigation; a popular treatise on the growth of air craft and on aëronautical meteorology. 1911. Appleton.

"This book has unusual merit. It is popular in tone, but contains many important scientific facts related directly and indirectly to aviation, and cannot fail to be regarded as an excellent addition to aeronautic literature." *Nation*, 1912.

Zahm, Albert Francis.

r 506 S66m v.62

Report on European aeronautical laboratories. 1914. (In Smithsonian Institution. Miscellaneous collections, v.62, no.3.)

Periodicals

qr 533.605 A25

Aero and hydro [weekly], Oct. 8, 1910–Nov. 14, 1914. v.1–v.9, no.5. 1910–14.

v.1, no.2, Oct. 15, 1910, wanting.

v.1–v.4, no.13, Oct. 8, 1910–June 29, 1912, title reads "Aero."

Publication discontinued with v.9, no.5, Nov. 14, 1914.

qr 533.605 F67

Flying [monthly], Jan. 1912–date. v.1–date. 1912–date.

Official organ of the Aero Club of America.

v.1, no.1–8, Jan.–Sept. 1912, title reads "Aero Club of America bulletin."

Zeppelins

Hearne, R. P.

533.622 H38

Zeppelins and super-Zeppelins. 1916. Lane.

Brief survey of present (1916) status and probable limitations. Contains some descriptive matter, but does not go into technical problems of design and construction.

Aëroplanes

Duchêne, Émile Auguste.

533.65 D86

Flight without formulæ; simple discussions on the mechanics of the aeroplane; tr. from the French by J. H. Ledebøer. 1914. Longmans.

The subject is a hard one to treat accurately without the use of mathematical notation, but by his ingenious explanations the author has surmounted the difficulty admirably. He discusses problems of speed, power and stability, suppressing all mathematics beyond elementary arithmetic.

Bryan, George Hartley.

533.651 B84

Stability in aviation; an introduction to dynamical stability as applied to the motions of aeroplanes. 1911. Macmillan.

Mathematical discussion. Advocates theoretical investigation, to supplement and to some extent supersede purely experimental work in aeroplane design.

Duchêne, Émile Auguste. 533.652 D86

Mechanics of the aeroplane; a study of the principles of flight; tr. from the French by J. H. Ledeboer and T. O. Hubbard. 1912. Longmans.

"Purpose [of the work] is to explain in terms as simple as possible, and with a minimum of formulae, the main principles of dynamic flight; to give the ordinary reader an insight into the various problems involved in the motion and equilibrium of the aeroplane; and to enable him to calculate in the simplest possible manner the various elements and conditions of flight." *Translators' preface.*

Hayward, Charles Brian. 533.652 H37

Building and flying an aeroplane; a practical handbook covering the design, construction and operation of aeroplanes and gliders. 1912. Amer. School of Correspondence.

Describes details of construction. Chooses Curtiss and Bleriot types of aeroplane for description, as simplest representatives of their respective classes.

Hubbard, Thomas O'Brien, & Turner, C. C. j 533.652 H87

Boys' book of aeroplanes. [1913.] Stokes.

Contains also a chapter "Model aeroplanes," by E. W. Twining.

Begins with the principles of flight. Then follow chapters on building the aeroplane and learning to fly, the aeroplane in war, the early history of flight, the Wrights and modern developments. Illustrations from photographs.

Lougheed, Victor. 533.652 L92

Aeroplane designing for amateurs; a plain treatment of the basic principles of flight engineering, including heretofore unpublished facts concerning bird flight and aerodynamic phenomena. 1912. Reilly.

Useful book, omitting usual descriptive material and considering principles of construction. Deals with equilibrium, structural elements and materials, designing, power and propulsion, operation and control.

Kinetic energy

Worthing, Archie Garfield. qr 533.7 W91

Some thermodynamic properties of air and of carbon dioxide. 1911. New Era Printing Co.

"Bibliography," p.266-267.

Thesis for Ph. D., University of Michigan.

Reprinted from the "Physical review," v.33, no.4, Oct. 1911.

Blaess, Viktor. r 533.88 B51

Die strömung in röhren und die berechnung weitverzweigter leitungen und kanäle, mit rücksicht auf be- und entlüftungsanlagen, grubenbewetterung, gastransport, pneumatische materialförderung, etc. 1910.

Investigates flow of gases in tubes and conduits under low pressure. Studies practical applications.

534 Sound

Hamilton, Clarence Grant. 534.3 H19

Sound and its relation to music. 1912. Ditson. (Music students library.)

"Reference list" at the end of each chapter; "List of reference books," p.7.

Clear and elementary study of the mechanism of sound production, quality and classification of tones, and their production by the different musical instruments.

Miller, Dayton Clarence.

534.3 M69

The science of musical sounds. 1916. Macmillan.

Contents: Sound waves, simple harmonic motion, noise and tone.—Characteristics of tones.—Methods of recording and photographing sound waves.—Analysis and synthesis of harmonic curves.—Influence of horn and diaphragm on sound waves, correcting and interpreting sound analyses.—Tone qualities of musical instruments.—Physical characteristics of the vowels.—Synthetic vowels and words, relations of the art and science of music.

"References," p.271-279.

Non-technical, but accurate, and may be accepted as the latest authority on this phase of sound investigation. Certain work on recording and photographing sound waves is entirely new (1916), and made possible only by the apparatus devised by the author.

Clements-Henry, B.

534.86 C56

Gramophones and phonographs; their construction, management and repair. 1913. Cassell. ("Work" handbooks.)

535 Light. Optics

Barrows, William Edward.

535 B26

Light, photometry and illumination. 1912. McGraw.

Author is an electrical engineer and his book has special reference to electric light, though concerned with properties, measurement and distribution, and not with production of light.

Clay, Reginald Stanley.

535 C54

Treatise on practical light. 1911. Macmillan.

Describes methods of measurement and of experimentation with optical apparatus and instruments.

"Dr. Clay's book will certainly form a very useful reference work, not only for students of physics, but also for those engaged in industrial applications of the principles of light." *Nature*, 1912.

Drude, Paul.

r 535 D84a

Lehrbuch der optik; hrsg. von E. Gehrcke. Ed.3, enl. 1912.

Contents: Geometrische optik.—Physikalische optik: Allgemeine eigenschaften des lichtes; Optische eigenschaften der körper; Die strahlung der körper.

"Contains the most rational account of the phenomena of optics which we possess." *Nature*, 1900.

Houstoun, Robert Alexander.

535 H83

Treatise on light. 1915. Longmans.

Systematic treatment of geometrical and physical optics, spectroscopy, photometry and the mathematical theory of light. Comprehensive and presented with admirable clearness.

Melville, Thomas.

r 535 M59

Thomas Melville, the originator of spectrum analysis; a reprint of an original paper by him on "Observations on light and colours" (1752), with a prefatory note by J. A. Brashear. 1914.

Reprinted from the "Journal of the Royal Astronomical Society of Canada," July-Aug. 1914.

Nutting, Perley Gilman.

535 N54

Outlines of applied optics. 1912. Blakiston. (Blakiston's science series.)

"References" at the end of each chapter.

For the practical worker in applied optics rather than the student. Wide in scope, but treatment of topics brief. Lacks index, and table of contents is unsatisfactory. The special bibliographies are excellent. Author is (1912) associate physicist, United States bureau of standards.

- Topham, W. H.** 535 T62
Elementary light; theoretical and practical. 1911. Arnold.
Brief text, with experiments.
- Werth, Hugo.** 535 W54
Das licht; ausführliche und allgemein verständliche darstellung. 1910.
Intended primarily for self-instruction. Attempt has been made to reduce mathematical treatment to a minimum and to make the text as clear as possible.
- Maclaurin, Richard Cockburn.** 535.1 M19
Theory of light; a treatise on physical optics. v.1. 1908. Cambridge University Press.
Highly mathematical in treatment. Includes much from author's own investigations.
- Preston, Thomas, M. A.** 535.1 P93
Theory of light; ed. by W. E. Thrift. Ed.4. 1912. Macmillan.

Photometry

- Bohle, Hermann.** 535.2 B59
Electrical photometry and illumination; a treatise on light and its distribution, photometric apparatus and illuminating engineering. 1912. Griffin.
"Bibliography," p.212-218.
Primarily a text-book for second-year engineering students. Considers illumination from both the physical and the physiological standpoints and will be useful to medical men, architects and the general public.
- Uppenborn, Friedrich.** qr 535.2 U26
Lehrbuch der photometrie; bearbeitet und hrsg. von Berthold Monasch. 1912.

Spectrum. Ultra-violet rays

- King, Arthur Scott.** qr 535.331 K26
Influence of a magnetic field upon the spark spectra of iron and titanium. 1912. (Carnegie Institution of Washington. Publication no.153.)
"Bibliographical references," p.65-66.
"It is believed that there is little real duplication in the present paper, even for those parts of the spectrum which have been treated to some extent by others." *Introduction.*
- New York (city)—Public library. Astor, Lenox and Tilden foundations.** qr 016.535333 N26
Ultra-violet rays; references to material in the library. 1915.
- Jones, Harry Clary, & Guy, J. S.** qr 535.342 J41as
Absorption spectra of solutions as affected by temperature and by dilution; a quantitative study of absorption spectra by means of the radiomicrometer. 1913. (Carnegie Institution of Washington. Publication no.190.)

Jones, Harry Clary, & Strong, W. W.

qr 535.342 J41ab

Absorption spectra of solutions of comparatively rare salts, including those of gadolinium, dysprosium and samarium, the spectrophotography of certain chemical reactions and the effect of high temperature on the absorption spectra of non-aqueous solutions. 1911. (Carnegie Institution of Washington. Publication no.160.)

Jones, Harry Clary, and others.

qr 535.342 J41ao

Absorption spectra of solutions as studied by means of the radio-micrometer, the conductivities, dissociations and viscosities of solutions of electrolytes in aqueous, non-aqueous and mixed solvents. 1915. (Carnegie Institution of Washington. Publication no.210.)

"Bibliography," p.199-202.

Luminescence

Nichols, Edward Leamington, & Merritt, E. G.

qr 535.37 N31

Studies in luminescence. 1912. (Carnegie Institution of Washington. Publication no.152.)

Series of investigations begun in 1903 and described originally in various papers in the "Physical review."

Photochemistry

Plotnikov, Ivan Stepanovich.

r 535.38 P71

Photochemische versuchstechnik. 1912.

Deals largely with methods of investigation and manipulation. Short bibliographies after each section.

"Very useful reference book for those engaged upon photochemical investigations." *American chemical journal*, 1913.

Sheppard, Samuel Edward.

535.38 S54

Photo-chemistry. 1914. Longmans. (Text-books of physical chemistry.)

"The plan has been followed...of discussing at some length certain intensive studies on cardinal points in photo-chemical change rather than that of enumerating and recording every example of photo-chemical reaction or light sensitive substance." *Preface*.

Weigert, Fritz.

r 535.38 W44

Die chemischen wirkungen des lichts. 1911. (Ahrens, F.B. ed. Sammlung chemischer und chemisch-technischer vorträge, v.17, pt.6-8.)

Interferometry

Barus, Carl.

qr 535.41 B28e

Experiments with the displacement interferometer. 1915. (Carnegie Institution of Washington. Publication no.229.)

Barus, Carl.

qr 535.41 B28

Production of elliptic interferences in relation to interferometry. pt.3. 1914. (Carnegie Institution of Washington. Publication no.149.)

For pt.1-2 see preceding catalogue, v.6.

Color

Brücke, Ernst Wilhelm, *ritter* von. r 535.6 B82

Die physiologie der farben für die zwecke der kunstgewerbe, auf anregung der direction des Kaiserlich Oesterreichischen Museums für Kunst und Industrie bearbeitet von Ernst Brücke. 1866.

Luckiesh, M. 535.6 L97

Color and its applications. 1915. Van Nostrand.

"References" at the end of each chapter.

Authoritative work on the science of color, with special reference to applications, including color mixture, color vision, color photography, color in lighting, in painting, and in stage and display effects. Embodies results of author's own valuable research work.

Munsell, Albert Henry. q 535.6 M96a

Color notation; an illustrated system defining all colors & their relations by measured scales of hue, value and chroma made in solid paint for the accompanying color atlas. Ed.3, rev. & enl. 2v. 1913. Ellis & Wadsworth.

v.1. Text.

v.2. Atlas.

The same. Ed.2, rev. & enl. 1907. Ellis.....535.6 M96

Does not contain the atlas of pigment color.

Ridgway, Robert. r 535.6 R43

Color standards and color nomenclature, with colored plates. 1912.

Privately printed.

Thorough scientific treatise of immense value. Result of an enormous amount of pioneer work, which is explained and described. The color charts include 1,115 specimens, all of which are named, while the system further provides for the designation of many intermediates, the total exceeding 4,000 color variations.

"It is perhaps too much to say that this monumental work is the final solution of the problem of color standards, but it is doubtful if any one so competent as Ridgway in matters relating to color will in the near future devote a very important portion of his working life to the subject as Ridgway has done. He has certainly produced a usable set of standards." *W. J. Spillman, in Science, 1913.*

The eye

Rand, Marie Gertrude. qr 535.733 R18

Factors that influence the sensitivity of the retina to color; a quantitative study and methods standardizing. 1913.

Thesis for Ph. D., Bryn Mawr College.

Reprinted from "Psychological review; psychological monographs," v.15, no.1, March 1913.

The same. (In Psychological review; psychological monographs, v.15, no.1.).....qr 150 P97m v.15 no.1

Applications

Baker, Arthur Latham. 535.81 B17

Thick-lens optics; an elementary treatise for student and amateur. 1912. Van Nostrand.

Explains principles mathematically, but without use of higher mathematics.

- Baly, Edward Charles Cyril.** 535.84 B21
Spectroscopy. [Ed.2.] 1912. Longmans. (Text-books of physical chemistry.)
Practical treatise dealing with the applications of spectroscopy. Thorough and accurate.
- Lyman, Theodore, b. 1874.** 535.84 L98
Spectroscopy of the extreme ultra-violet. 1914. Longmans. (Monographs on physics.)
"Bibliography," p.125-127.
"List of papers of V. Schumann," p.129-130.
"Author discusses his own brilliant work with dignified modesty, and does not neglect the historic side of the subject and the results obtained by others...The book is undoubtedly an important and authoritative contribution to the special field to which it relates." *American journal of science*, 1914.
- Rohr, Louis Otto Moritz von.** 535.85 R62
Theorie und geschichte des photographischen objektivs. 1899.
"Litteraturverzeichnis," p.399-435.
Historical part is much the more extensive. Traces development of photographic lenses and objectives, giving particular prominence to the Jena school of investigators.
- Gage, Simon Henry, & Gage, H. P.** 535.86 G13
Optic projection; principles, installation and use of the magic lantern, projection microscope, reflecting lantern, moving picture machine. 1914. Comstock.
"Bibliography," p.693-703.
Treats the subject fully, giving a great deal of valuable information, much of which is not available in any other work. Considerable material is taken from trade literature. Intended for manufacturers, demonstrators and students. The practical directions for operation, with detailed comment on what to do and what to avoid, result in a good deal of repetition.
- Helmholtz, Hermann Ludwig Ferdinand von.** qr 535.87 H42
Description of an ophthalmoscope; an English translation of [his] "Beschreibung eines augenspiegels," by T. H. Shastid. 1916. Cleveland Press.

536 Heat

- Hartmann, Francis M.** 536 H32
Heat and thermodynamics. 1911. McGraw.
"Author...has long felt the need of a text, in teaching the subject of thermodynamics, which properly covers, without introducing too much material, the fundamental principles of heat measurements...Aim has been throughout to keep within the bounds of elementary mathematics. However, a fair knowledge of the calculus, on the part of the reader, has been assumed." *Preface*.
- Randall, John Arthur.** 536 R18
Heat; a manual for technical and industrial students. 1913. Wiley.
(Wiley technical series for vocational and industrial schools.)
Text-book giving the essential principles of heat, particularly as a foundation for study of the applications of heat to power purposes.
- Shealy, Edward Marvin.** 536 S53
Heat; prepared in the Extension division of the University of Wisconsin. 1914. McGraw. (Engineering education series.)
Elementary work on the nature of heat phenomena, and the more important commercial applications of heat.

Carslaw, Horatio Scott.

536.21 C23

Introduction to the theory of Fourier's series and integrals and the mathematical theory of the conduction of heat. 1906. Macmillan.

"Bibliography; Fourier's series," p.411-418; "The conduction of heat," p.419-429. Binder's title reads "Fourier's series and integrals."

Based on lectures at the University of Glasgow.

"Exact, scholarly treatise; intended for mathematical students, yet written by one sufficiently conversant with physics not to ignore the special claims of the experimentalist, who is chiefly concerned with approximations." *Knowledge*, 1907.

Ingersoll, Leonard Rose, & Zobel, O. J.

536.21 I24

Introduction to the mathematical theory of heat conduction, with engineering and geological applications. 1913. Ginn.

"Deals with the theory of the flow of heat through solid bodies. The aim of the authors has been to develop the subject in such a way as to bring out the broad bearing and the generality of the methods of analysis, yet avoiding undue stress on purely mathematical derivations... Especial emphasis is laid on the many applications to which the results are susceptible... The authors presuppose on the part of the reader a good working knowledge of differential and integral calculus, but no previous acquaintance with differential equations. The book really serves as an excellent introduction to... differential equations. To the engineer who wishes to acquire a working knowledge of Fourier's series and its application to problems in heat conduction the book can be warmly recommended." *Irving Langmuir, in Engineering news*, 1913.

Babcock & Wilcox Co.

r 536.24 B11

Experiments on the rate of heat transfer from a hot gas to a cooler metallic surface. 1916.

Effects of heat

Expansion. Liquefaction

Hausbrand, Eugen.

r 536.4 H35

Verdampfen, kondensieren und kühlen; erklärungen, formeln und tabellen für den praktischen gebrauch. Ed.5, enl. 1912.

Claude, Georges.

q 536.42 C54

Liquid air, oxygen, nitrogen; tr. by H. E. P. Cottrell, with a preface by D'Arsonval. 1913. Churchill.

Clear account of development of processes and their industrial applications. Author's personal contribution to the knowledge of the subject is of considerable importance.

Thermometry. Pyrometry

Day, Arthur Louis, & Sosman, R. B.

qr 536.511 D33

High temperature gas thermometry, with an investigation of the metals by E. T. Allen. 1911. (Carnegie Institution of Washington. Publication no.157.)

Burgess, George Kimball, & Le Chatelier, Henri.

536.52 B89

Measurement of high temperatures. Ed.3, enl. 1912. Wiley.

"Bibliography," p.465-488.

An earlier edition by Le Chatelier and Boudouard has title "High-temperature measurements."

Intended for the student, the engineer and the investigator. Clearly and logically written. Deals with principles rather than with details of individual pyrometers, but practical applications have been kept in mind, and there is some judicious discussion of the limitations of various processes.

Darling, Charles Robert.

536.52 D25

Pyrometry; a practical treatise on the measurement of high temperatures. 1911. Spon.

"The exact ascertainment of the working temperature has become a dominant factor in...many industrial processes...A book dealing systematically with the subject, classifying the instruments, explaining their mode of construction and defining their limitations is therefore called for, and the present volume satisfies that want very well." *Ironmonger, 1911.*

Practical book, describing actual manipulation fully and giving special attention to types which have been found reliable in practice.

Thermodynamics

Goodenough, George Alfred.

536.7 G62

Principles of thermodynamics. 1911. Holt.

"References" at end of chapters.

"Purpose is to provide a course...that may serve as an adequate foundation for the advanced study of heat-engines." *Preface.*

"Has fulfilled his purpose excellently. The treatment is by direct mathematical analysis of a sufficiently rigorous nature, is well arranged, clear and complete." *Lionel S. Marks, in Engineering news, 1911.*

Goodenough, George Alfred.

qr 536.7 G62

Properties of steam and ammonia. 1915. Wiley.

Greene, Arthur Maurice.

536.7 G83

Heat engineering; a text book of applied thermodynamics for engineers and students in technical schools. 1915. McGraw.

"Presupposes a course in theoretical thermodynamics such as that given in the treatises of Wood, Peabody or Goodenough." *Preface.*

Lucke, Charles Edward.

536.7 L97

Engineering thermodynamics. 1912. McGraw.

Exhaustive treatise on general thermodynamics and technical applications. Contains numerous problems and has many tables giving composition and calorific power of various fuels. Primarily a text for engineering students but valuable also as a reference book for engineers, though its value for reference is lessened by lack of an index.

Moyer, James Ambrose, & Calderwood, J. P.

536.7 M94

Engineering thermodynamics. 1915. Wiley.

Brief text, attempting non-technical presentation of fundamentals. Considers application to refrigeration and air compressors, but not internal combustion engines.

Partington, James Riddick.

536.7 P27

Text-book of thermodynamics (with special reference to chemistry). 1913. Constable.

"References" at the end of many chapters.

Intended especially for students of physical chemistry and is rather severe reading. The mathematical knowledge presupposed is limited to the elements of the differential and integral calculus.

Schüle, Wilhelm.

r 536.7 S38

Technische thermodynamik. Ed.2, enl. 2v. 1912-14.

v.1. Die für den maschinenbau wichtigsten lehren nebst technischen anwendungen.

v.2. Höhere thermodynamik.

Moderately technical treatise on the properties and mechanics of gases and vapors and the fundamental laws of thermodynamics.

"Forsakes in many respects the accepted continental methods and approximates to the best English models. In general it combines the best features of both. The mathematical treatment is everywhere simple. Where possible geometrical methods are substituted...Well adapted both to class-room work and for self study, and...should be found as useful to the practicing engineer as to the student." *Lionel S. Marks, in Engineering news, 1909.*

- Wheeler Condenser & Engineering Company,** r 536.7 W61a
Carteret, N. J.
 Steam tables for condenser work; a handbook of steam tables.
 Ed.3. 1915.
 With this is bound their "Psychrometric tables for cooling tower work."
The same. 1912.....r 536.7 W61
- Crawford, W. J.** 536.75 C87
 Calculations on the entropy-temperature chart. 1912. Griffin.
 Object is to explain use of chart rather than principles underlying entropy. Appendix contains many problems for solution.

537 Electricity

For Electrical engineering, see 621.3

- Abraham, Max, ed.** 537 A15
 Theorie der elektrizität. Ed.3. v.1. 1907.
 v.1. Einführung in die Maxwellsche theorie der elektrizität, vom A. Föppl.
- Ascoli, Moisè.** r 537 A81
 Introduzione allo studio delle applicazioni elettriche. 1897.
 Rigid mathematical treatise, characterized by brevity of demonstration.
- Benischke, Gustav.** r 537 B435
 Magnetismus und elektrizität mit rücksicht auf die bedürfnisse der praxis. 1896.
 Fundamental principles, discussion of various phenomena and instruction in measurements.
- Brunhes, Bernard.** r 537 B83
 Cours élémentaire d'électricité, lois expérimentales et principes généraux, introduction à l'électrotechnique; leçons professées à l'Institut Industriel du Nord de la France. 1895.
 Requires knowledge of mathematics through calculus.
- Campbell, Norman Robert.** 537 C15
 Modern electrical theory. Ed.2. 1913. Cambridge University Press.
 (Cambridge physical series.)
Contents: The electronic theory.—Radiation.—Electricity and matter.
"References" at the end of each chapter.
 Intelligent discussion of the relation between electricity and matter. Not intended for the expert, but requires considerable knowledge of physics and some mathematics.
"Although we do not find ourselves in agreement with everything in this book, it is undeniably a very invigorating study of the subject." *Nature*, 1908.
- Frölich, Oskar.** r 537 F96
 Handbuch der elektrizität und des magnetismus für techniker.
 Ed.2, enl. 1887.
 Author was a recognized authority on the subject. Book covers theory of electricity and magnetism, electrical measurements and machinery. Traces historical development of some apparatus.
- Gariel, Charles Marie.** r 537 G18
 Traité pratique d'électricité, comprenant les applications aux sciences et à l'industrie, et notamment à la physiologie, à la médecine, à la télégraphie, à l'éclairage électrique, à la galvanoplastie, à la météorologie, etc. v.1. 1884.
 v.1 covers theory of electricity, methods of measurement, and description of various electrostatic machines, cells and induction coils. Uses only elementary mathematics.

Hoh, Theodor. r 537 H68
Elektricität und magnetismus als kosmotellurische kräfte. 1887.
(Hartleben's elektro-technische bibliothek.)

Devoted mainly to atmospheric electricity, with a single chapter on terrestrial magnetism. Many interesting historical sketches and numerous references.

La Rive, Auguste Arthur de. r 537 L32
Traité d'électricité théorique et appliquée. 3v. 1854-58.

Comprehensive work on electricity and magnetism. For a long time the only systematic practical treatise on the subject.

Lucas, Félix Benjamin. qr 537 L96
Traité pratique d'électricité à l'usage des ingénieurs et des constructeurs. 1892.

Includes theory of electricity and magnetism, electrical measurements, primary and secondary batteries, and electrostatic machines, dynamo-electric machinery and transmission of electrical energy. Clear, concise presentation, with many original proofs, by both geometrical and analytical methods. Gives results of author's own investigations on incandescence of carbon.

Mie, Gustav. 537 M67
Lehrbuch der elektrizität und des magnetismus; eine experimentalphysik des weltäthers für physiker, chemiker, elektrotechniker. 1910.
Comprehensive text-book.

Neumayer, August. r 537 N25
Die laboratorien der elektro-technik und deren neuere hilfsapparate; ein handbuch für elektriker, mechaniker, telegraphen-ingenieure, lehrer und studierende der physik. 1887. (Hartleben's elektro-technische bibliothek.)

Manual dealing with installations and apparatus rather than with principles and methods, and therefore of merely historical interest.

Poloni, Giuseppe. r 537 P76
Manuale di magnetismo ed elettricità; seconda edizione curata da Francesco Grassi. 1895.

Popular book for general reading. Gives fundamental theory and describes a few important applications, now (1914) considerably improved.

Shafer, Donald Cameron. j 537 S52
Harper's beginning electricity. 1913. Harper. (Harper's practical books.)

"Explains electricity very simply in connection with experiments which any boy can do and devices which any boy can make." *Foreword.*

Contains chapters on electric lighting, the telegraph, telephone and other practical applications. Appendix gives a short history of electricity. Illustrated.

Shafer, Donald Cameron. 537 S52
Harper's every-day electricity; how to make and use familiar electrical apparatus. 1914. Harper. (Harper's "tell me how" books.)

Describes construction and explains working of many simple electrical appliances, mainly those adapted to household use. Fundamental principles of electricity are treated less fully than in author's "Beginning electricity."

Swoope, Coates Walton. 537 S97a2
Lessons in practical electricity; principles, experiments and arithmetical problems; revised and enlarged by H. N. Stillman. Ed.14, rev. & enl. 1914. Van Nostrand.

Deals chiefly with direct current practice. Requires only a knowledge of simple mathematics, and would be a good text-book for self-instruction.

Thompson, Silvanus Phillips. 537 T38
Elementary lessons in electricity and magnetism. Rev. & enl. ed. 1902. Macmillan.

The same. Ed.7, rev. & enl. 1915.....r 537 T38a
Prof. F. B. Crocker says: "This is a very good elementary treatment of fundamental principles. Extensively and successfully used as a text-book for students beginning the study of electricity. Suited for the general reader, the practical worker, and the engineer not electrical."

Wallentin, Ignaz Gustav. qr 537 W17
Lehrbuch der elektricität und des magnetismus. 1897.

General treatise on fundamental principles, and on practical applications of electricity in daily life.

Dictionaries

Sack, J. comp. r 537.03 S12
Elektrotechnisches wörterbuch; englisch, französisch, deutsch, mit zusätzen versehen von Arthur Wilke. 1895.

Based on works of Sloane, Houston and Lefèvre. Number of words is not large and electrochemistry is hardly touched upon.

History

Urbanitzky, Alfred, ritter von. r 537.09 U27
Elektricität und magnetismus im alterthume. 1887. (Hartleben's elektro-technische bibliothek.)

Concise presentation of views of the ancient and middle age savants. Numerous references to original sources.

Theory. Electrons

Abraham, Max. r 537.1 A15
Elektromagnetische theorie der strahlung. Ed.2. 1908. (Theorie der elektrizität, v.2.)

Kayser, Heinrich. 537.1 K14
Die elektronentheorie, with notes and vocabulary by A. S. Wright. 1905. Heath. (Heath's modern language series.)

"Purpose...is to help supply good reading for classes in scientific German...Covers briefly and clearly the history of the investigations which have led to the modern view of the constitution of matter and embodies the most recent thought on that subject [1905]...The vocabulary includes only such words as are not found in the ordinary dictionary." *Preface.*

Lodge, Sir Oliver Joseph. r 537.1 L76t
Les théories modernes de l'électricité; essai d'une théorie nouvelle; tr. de l'anglais et annoté par E. Meylan. 1891.

Richardson, Owen Willans. 537.1 R41
The electron theory of matter. 1914. Cambridge University Press. (Cambridge physical series.)

Schott, George Adolphus. qr 537.1 S37
Electromagnetic radiation and the mechanical reactions arising from it; being an Adams prize essay in the University of Cambridge. 1912. Cambridge University Press.

"Generally the book may be summed up as an honest attempt to develop...the

Schott, George Adolphus—*continued*.

qr 537.1 S37

theory of moving electric charges with as few restrictions respecting their structure and motion as possible, before proceeding to frame a comprehensive Electron Theory of Matter." *Athenæum*, 1912.

Mathematical.

Wilson, Harold Albert.

537.1 W76

Electrical properties of flames and of incandescent solids. 1912. University of London Press.

"Intended to give a concise but fairly complete account of recent researches... to present the mathematical theory required in as simple a form as possible, without loss of accuracy, and to make estimates of the reliability of some of the measurements described." *Preface*.

Deals mainly with discharge of electricity in a vacuum and in gases, conductivity of flames and salt vapors, and behavior of flames in a magnetic field.

Wood, Robert Williams.

qr 530 C72 no.6

Researches in physical optics, with especial reference to the radiation of electrons. pt. I. 1913. (In Columbia University, New York. Publication of the Ernest Kempton Adams fund for physical research, no.6.)

Electrostatics. Photo-electricity

Bichat, Ernest Adolphe, & Blondlot, P. R.

r 537.2 B47

Introduction à l'étude de l'électricité statique. 1885.

Moderately technical. Intended to fill an intermediate place between elementary manuals and the more profound theoretical treatises.

Allen, Herbert Stanley.

537.228 A42

Photo-electricity; the liberation of electrons by light, with chapters on fluorescence & phosphorescence and photo-chemical actions & photography. 1913. Longmans. (Monographs on physics.)

"The term photo-electricity is used in a general sense to designate any electrical effect due to the influence of light... In this book the term is used in a more restricted sense, to denote a change in the state of electrification of a body produced by the action of light." *Introductory*.

Hughes, Arthur Llewelyn.

537.228 H89

Photo-electricity. 1914. Cambridge University Press. (Cambridge physical series.)

The photo-electric effect is regarded as a form of ionization by light, and the author considers all forms of ionization by light, whether in solids, liquids or gases.

Dynamic electricity

Radium. Radioactivity

Lehmann, Otto, b. 1855.

r 537.53 L55

Die elektrischen Lichterscheinungen; oder, Entladungen bezeichnet als glimmen, büschel, funken und Lichtbogen, in freier Luft und in Vacuumröhren, unter Berücksichtigung von Entladungen ohne Lichterscheinung und der Entstehung des Lichtes der elektrischen Strahlen, Kathodenstrahlen, Röntgenstrahlen etc., zum Theil auf Grund eigener Experimentaluntersuchungen bearbeitet. 1898.

Thorough treatise, embodying all that was then known on the subject.

Makower, Walter, & Geiger, Hans. 537-53 M27p

Practical measurements in radio-activity. 1912. Longmans.

Gives complete account of instruments and methods used in practical investigation of various phenomena of radioactivity. Primarily intended as a laboratory guide.

Rutherford, Ernest. 537-53 R93ra

Radioactive substances and their radiations. 1913. Cambridge University Press.

Comprehensive work, authoritative and suggestive, giving present (1913) knowledge of the subject concisely and accurately.

"His new work is one of those which are inevitably and indubitably standard works." *Knowledge*, 1913.

Soddy, Frederick. 537-53 S67c

Chemistry of the radio-elements. 2 pts. in iv. 1911-14. Longmans. (Monographs on inorganic and physical chemistry.)

"References," pt.1, p.89-90; pt.2, p.45-46.

Brief but systematic presentation of the more important physical and chemical properties of the 30 or more radio-elements thus far identified.

"Embodies a classification, with its resulting theories, which will probably prove to be the greatest stride made in inorganic chemistry since Mendeléeff's time." *Science progress*, 1914.

qr 537-5305 R13

Radium; a monthly journal devoted to the chemistry, physics and therapeutics of radium and other radio-active substances, April 1913-date. v.1-date. 1913-date. Pittsburgh.

Rays and radiation

Bragg, William Henry, & Bragg, W. L. 537-54 B68

X rays and crystal structure. 1915. Bell.

International Correspondence Schools, Scranton, Pa. 537-54 I24

System of electrotherapeutics. 1903. International Textbook Co. (International library of technology.)

Contents: Physics of Roentgen rays.—Skiagraphy.—Practical applications of Roentgen rays.—Physics of light and cautery.

Practical production and utilization of Roentgen rays.

Kaye, George William Clarkson. 537-54 K14

X rays; an introduction to the study of Röntgen rays. 1914. Longmans.

Descriptive, non-mathematical work, with some attention to practical applications.

"Unapproached in authority among existing English books. We consider that for some time to come this will be the classic book on x-rays, to which the student may refer with the full conviction that he will find an absolutely scientific and reliable guide." *Knowledge*, 1914.

Thomson, Sir John. 537-55 T38

Rays of positive electricity and their application to chemical analyses. 1913. Longmans. (Monographs on physics.)

Discusses author's experimental work in this field, extending over seven years. Considers use of "positive" or "canal rays" in qualitative analysis, by photographing the rays in a discharge tube.

Electric measurements

American Institute of Electrical Engineers. r 537-7 A51a

Standardization rules of the American Institute of Electrical Engineers, approved June 30th, 1915, to take effect July 1, 1915. 1915.

Arnò, Riccardo. r 537.7 A75
 Metodi di misura delle grandezze elettriche. 1897. (Laboratorio di elettrotecnica del R. Museo Industriale Italiano in Torino. Sezione prima.)

Gives in concise form the standard methods for electrical measurements.

British Association for the Advancement of Science. r 537.7 B75

Reports of the committee on electrical standards [1862-1912]; a record of the history of "absolute units" and of Lord Kelvin's work in connection with these. 1913. Cambridge University Press.

Reprinted from the reports of meetings of the association.

Engineering Standards Committee. qr 537.7 E64

British standardisation rules for electrical machinery (excluding motors for traction purposes). 1915. (British standard sections no.72.)

Fleming, John Ambrose. r 537.7 F621

Le laboratoire d'électricité; notes et formules; tr. de l'anglais et augmenté d'un appendice par J. L. Routin. 1898.

Gérard, Éric. r 537.7 G31

Mesures électriques; leçons professées à l'Institut Électrotechnique Montefiore annexé à l'Université de Liège. 1896.

Clearly written, with fundamental methods well presented.

Gerland, Ernst. r 537.7 G32

Die anwendung der elektricität bei registriren den apparaten. 1887. (Hartleben's elektro-technische bibliothek.)

Describes applications (prior to 1887) to instruments for astronomical, technical, physical, meteorological and seismological purposes.

Heinke, Curt, and others. qr 621.3 H23 v.2

Die messtechnik. 1905-08. (In Handbuch der elektrotechnik, v.2, pt.1-6.)

Hospitalier, Édouard. qr 537.7 H82

Les compteurs d'énergie électrique. 1889.

Extrait de "L'Électricien."

Pamphlet summarizing development in industrial measurement of direct and alternating currents. Confined to work of a few years prior to 1889.

International Committee on Electrical Units and Standards—Special technical committee. qr 537.7 I24

Report to the International Committee on Electrical Units and Standards of a special technical committee appointed to investigate and report on the concrete standards of the international electrical units and to recommend a value for the Weston normal cell. 1912.

—Supplement, 1912. 1913.....qr 537.7 I24a

Issued by the United States standards bureau.

Jansky, Cyril Methodius. 537.7 J18

Electrical meters; prepared in the Extension division of the University of Wisconsin. 1913. McGraw. (Engineering education series.)

Classifies electrical measuring instruments, deals with construction and testing, and discusses sources of error.

Karapetoff, Vladimir.

537-7 K13a

The electric circuit. Ed.2, rev. & enl. 1912. McGraw.

"Bibliography," p.219.

"This pamphlet, together with the companion pamphlet entitled 'The magnetic circuit,' is intended to give a student in electrical engineering the theoretical elements necessary for calculation of the performance of dynamo-electric machinery and of transmission lines." *Preface.*

National Electric Light Association.

537-7 N15

Electrical meterman's handbook; written and comp. by the Committee on meters. [1912.]

"Bibliography," p.87-89.

Mainly compilation. For practical men without technical knowledge. Covers fully the field of electric meter practice in the United States.

Northrup, Edwin Fitch.

537-7 N45

Methods of measuring electrical resistance. 1912. McGraw.

"Contains a compilation of many methods...most of which are fully described... While it is not claimed that the work is exhaustive, the author has selected for presentation all methods which in his judgment are useful." *Preface.*

Smith, Arthur Whitmore.

537-7 S64

Principles of electrical measurements. 1914. McGraw.

Class book and laboratory manual for beginners in electrical engineering.

Waltenhofen, Adalbert von.

r 537-7 W19

Die internationalen absoluten masse, insbesondere die electrischen masse, für studirende der electrotechnik in theorie und anwendung dargestellt und durch beispiele erläutert. Ed.3, rev. 1902.

Brief history of the absolute system of units. Most important part is that which treats of the fundamental quantities and their relations.

Wenner, Frank.

qr 537-7 W52

A theoretical and experimental study of the vibration galvanometer. 1909.

Thesis for Ph. D., University of Pennsylvania.

With this are bound "A method of measuring the intensity of sound and its application to the determination of the correction for the open end of a cylindrical resonator," by W. M. Boehm, and "A thermo-hysteretic frequency meter and the application of differential thermo-junctions to A. C.-D. C. comparison," by C. E. Hiatt.

Weston Electrical Instrument Company, Newark, N. J.

r 537-7 W57

Elementary electrical testing. 1914. (Joint committee series, monograph 2.)

National Education Association edition.

Weston Electrical Instrument Company, Newark, N. J.

r 537-7 W57e

Experimental electrical testing; a compilation including practical electrical measurements actually performed by students, issued for science teachers in educational institutions. 1914. (Monograph B-4.)

Weston Electrical Instrument Company, Newark, N. J.

r 537-7 W57f

Monographs. Ed.2. 1914.

Contents: A few suggestions relating to the selection of electrical measuring instruments.—Elementary electrical testing in the high school laboratory.—Practical measuring apparatus.

With this is bound "Lectures on electrical apparatus and experiments."

General Electric Company, Schenectady, N. Y.

537-744 G29

General data on Thomson watt-hour meters. 1912.

Constants, connections and dimensions of various types. Only general information and instructions, to be modified by special information accompanying meters.

Experimental electricity

Ballhatchet, Albert V.

537.81 B21

Electrical apparatus making for beginners; a practical handbook for home and school workshops. [1916.] Marshall.

Simple and easily constructed apparatus. The suggested materials and tools are usually easily accessible.

Largely taken from the "Model engineer."

Edelman, Philip E.

537.81 E26

Experiments; a volume for all who are interested in progress, a complete account of experimental work in science, invention, the industries and the amateur field, with practical instructions and working directions. 1914. Privately printed.

Pt.1 gives many simple experiments in chemistry and electricity, with a few in mechanics, horticulture, aeronautics and microscopy. Pt.2 discusses principles and a few general processes of scientific experimentation and commercial research.

Weston Electrical Instrument Company, Newark, N. J. r 537.7 W57f

Lectures on electrical apparatus and experiments, illustrated with cuts from lantern slides, for the physics teacher. 1915.

Bound with their "Monographs."

Electrometallurgy. Electroplating

Barclay, William R. & Hainsworth, C. H.

537.85 B23

Electroplating; a treatise on the electro-deposition of metals, with a chapter on metal-colouring and bronzing. 1912. Arnold.

Practical and reliable guide for the electroplater, written from the scientific standpoint.

Bouant, Émile.

r 537.85 B65

La galvanoplastie, le nickelage, la dorure, l'argenture et l'électrometallurgie. 1887.

Deals in detail with electroplating as practiced at that time (1887), describing methods of the best authorities. Deals very briefly with electrometallurgy.

Buchner, Georg.

r 537.85 B85

Elektrolytische metall-abscheidungen, angewandte elektrochemie (galvanostegie und galvanoplastik); wissenschaftliches und praktisches handbuch für galvanotechniker, chemiker, gewerbetreibende, industrielle, usw. 1912.

Field, Samuel.

537.85 F45

Principles of electro-deposition; a laboratory guide to electroplating. 1911. Longmans.

Largely theoretical, presupposing a knowledge of elementary chemistry. Deals very briefly with details of industrial practice. Includes qualitative and quantitative analysis and recovery of metals.

Fontaine, Hippolyte.

r 537.85 F73

Électrolyse; renseignements pratiques sur le nickelage, la dorure, l'argenture, le cuivrage, la galvanoplastie, le traitement des métaux, le blanchiment, etc., au moyen de l'électricité. Ed.2. 1892.

Formerly a standard work. English translation has been widely used.

Langbein, George.

537.85 L24

Complete treatise on the electro-deposition of metals; tr. from the latest German edition with additions by W. T. Brannt. Ed.7, rev. & enl. 1913. Baird.

Le Verrier, Louis Paul Urbain.

r 537.85 L66

Les applications de l'électrolyse à la métallurgie. 1896.

Treats briefly the electrometallurgy of copper, zinc, nickel, antimony, tin, gold and silver.

Minet, Adolphe.

r 537.85 M72

Électro-métallurgie; voie humide et voie sèche, phénomènes électro-thermiques.

One of a proposed series of four volumes in which author intended to deal fully with all branches of electrochemistry.

Tommasi, Donato.

r 537.85 T59

Notice sur les procédés électrométallurgiques de Donato Tommasi. 1898.

Brief notes on various processes for electrolytic extraction and refining of metals, desilverization of lead, and electrolytic preparation of certain products.

Watt, Alexander.

537.85 W32a

Electro-plating and electro-refining of metals; new edition of [his] "Electro-deposition," rev. and largely rewritten by Arnold Philip. Ed.2, rev. 1911. Van Nostrand.

Practical treatise, characterized by thoroughness in detail and accuracy of statement.

Electric batteries

Crenshaw, James Llewellyn.

qr 537.86 C87

An investigation of zinc amalgams and concentration cells. 1911. Eschenbach.

Thesis for Ph. D., Princeton University.

Taitelbaum, Itzek.

r 537.86 T14

Studien über brennstoffketten. 1910.

Dissertation zur erlangung der würde eines doktor-ingenieurs von der Herzoglichen technischen hochschule Carola-Wilhelmina zu Braunschweig.

Problems

Weber, Robert Heinrich.

r 537.9 W37

Problèmes sur l'électricité; recueil gradué, comprenant toutes les parties de la science électrique. Ed.3. 1900.

Good collection of problems in theoretical and applied electricity. Frequent solutions emphasize the underlying principles.

537.9 W65

Whittaker's arithmetic of electrical engineering for technical students and engineers, containing worked examples and exercises. Ed.2, rev. [1911.] Whittaker.

Title is misleading. A few problems deal with applied electricity, but book is in general devoted to elementary theory of electricity and magnetism rather than to demonstration of engineering principles. Restricted to direct current. Treatment is concise. Useful in physical laboratory.

538 Magnetism

Stewart, Robert Wallace.

r 538 S85

Text-book of magnetism and electricity. Ed.2. 1894. Clive. (University tutorial series. Tutorial physics, v.4.)

Steiner, Desider.

r 538.23 S82

Die hysteresisverluste der ferromagnetisierbaren manganaluminium-bronzen in abhängigkeit von der frequenz des wechselfeldes. 1911.

Dissertation zur erlangung der würde eines doktor-ingenieurs von der Technischen hochschule zu Darmstadt.

Du Bois, H.

r 538.26 D85

Magnetische kreise; deren theorie und anwendung. 1894.

Theory of magnetic circuits and methods of magnetic measurement. Based on works of Maxwell, Mascart, Ewing and others.

Karapetoff, Vladimir.

538.26 K13

Magnetic circuit. 1911. McGraw.

"This book, together with the companion book entitled 'The electric circuit' [537.7 K13], is intended to give a student in electrical engineering the theoretical elements necessary for the correct understanding of the performance of dynamo-electric machinery, transformers, transmission lines, etc...The treatment is somewhat different from that given in most other books dealing with magnetic phenomena...No use whatever is made of the artificial concepts of unit pole, magnetic charge, magnetic shell, etc...The book is *not* intended for a beginner but for a student who has had an elementary descriptive course in electrical engineering and some simple laboratory experiments." *Preface.*

Heaviside, Oliver.

538.3 H39

Electromagnetic theory. v.3. [1912.] (Electrician series.)

A thorough discussion of the subject by a well known writer. Requires a good knowledge of mathematics on the part of the reader.

For v.1-2 see preceding catalogue, v.1.

Heinke, Curt, & Ebert, H.

qr 621.3 H23 v.1

Die elektrophysik und die theorie des elektromagnetismus. 1904.

(In Handbuch der elektrotechnik, v.1, pt.2-3.)

Jansky, Cyril Methodius.

538.3 J18

Elementary magnetism and electricity; prepared in the Extension division of the University of Wisconsin. 1914. McGraw. (Industrial education series.)

Especially for use in correspondence instruction. Treatment is clear and direct.

Walker, Gilbert Thomas.

538.3 W16

Outlines of the theory of electromagnetism; a series of lectures delivered before the Calcutta University. 1910. Cambridge University Press.

Condensed mathematical treatment.

"The chief novelty of it, compared with other English books on mathematical physics, lies in the consistent use of vector methods, and their advantage is shown by the large amount of material condensed into fifty-two pages...As an outline it may be commended most highly." *Science*, 1911.

Cohn, Emil.

538.311 C66

Das elektromagnetische feld; vorlesungen über die Maxwell'sche theorie. 1900.

Turpain, Albert Camille Léopold. r 538.56 T87

Les applications pratiques des ondes électriques, télégraphie sans fil, télégraphie avec conducteur, éclairage, commande à distance. 1902.

"Index bibliographique," p.387-391.

Good account of the latest (1902) researches. Includes list of patents.

Zeeman, Pieter. 538.62 Z38

Researches in magneto-optics, with special reference to the magnetic resolution of spectrum lines. 1913. Macmillan. (Macmillan's science monographs.)

"Bibliography," p.191-215.

Author is discoverer of the "Zeeman effect." Book is concerned mainly with his many contributions to the field of magneto-optics.

"In clearness and completeness of exposition, in true scientific enthusiasm, and in generous recognition of the work done by others, it is a fit successor of [Faraday's] 'Experimental Researches.'" *Knowledge*, 1913.

Terrestrial magnetism

Carnegie Institution of Washington—Terrestrial magnetism department. qr 538.7 C21

Researches, 1905-16. v.1-3. 1912-17. (Carnegie Institution of Washington. Publication no.175.)

v.1-2. Land magnetic observations, 1905-13, by L. A. Bauer.

v.3. Ocean magnetic observations, 1905-16, and reports on special researches, by L. A. Bauer.

United States—Coast and geodetic survey. r 538.7 U25

Directions for magnetic measurements, by D. L. Hazard. 1911.

Bibliography, p.5-6.

Replaces "Directions" in appendix no.8 to Report of the superintendent, United States coast and geodetic survey, year ending June 1881.

United States—Coast and geodetic survey. r 538.7 U25d

Distribution of the magnetic declination in the United States for Jan. 1, 1915, with isogonic chart and secular change tables, by D. L. Hazard. 1915. (Special publication no.33.)

The same, Jan. 1, 1910, with isogonic chart and secular change tables, by R. L. Faris. 1911. (Special publication no.9.).....qr 538.7 U25d2

United States—Coast and geodetic survey. qr 538.7 U25r

Results of magnetic observations made between July 1, 1911 and Dec. 31, 1915. 1913-16. (Special publication no.15, 20, 25, 36.)

Pacinnotti, Antonio. r 538.811 P12

Descrizione di una macchinetta elettro-magnetica. 1912.

Italian, French, English, German and Latin text.

Extract from the "Nuovo cimento," June 1864.

English translation is by S. P. Thompson.

539 Molecular physics

Bayma, Joseph. r 539 B33

Elements of molecular mechanics. 1866. Macmillan.

Nernst, Walther.

539.6 N23

Theory of the solid state; based on four lectures delivered at University College, London, in March 1913. 1914. University of London Press.

"A masterpiece of lucid condensation, covering as it does in a small number of pages the whole range of modern work on the thermal properties of solids." *Nature*, 1914.

540 Chemistry

For Chemical technology, see 660

Bibliography

Detroit, Mich.—Public library.

r 016.54 D48

Chemistry; selected list of books. 1915.

England—Patent office—Library.

r 016.54 E64a

Subject list of works on chemistry (including alchemy, electro-chemistry and radioactivity) in the library [comp. by W. T. Franks]. 1911. (Patent office library; subject lists, new series.)

Supersedes its "Subject list of works on chemistry and chemical technology."

Johns Hopkins University.

qr 378.7 J35 no.282

Forty years of experimental chemistry, 1876-1916. 1916. (In its Circular no.282.)

General works

Avery, Elroy McKendree.

r 540 A95

Elements of chemistry; a text-book for schools. 1881. Sheldon.

Bloxam, Charles Loudon.

540 B56

Chemistry, inorganic & organic, with experiments; rewritten and rev. by A. G. Bloxam and S. J. Lewis. Ed.10. 1913. Blakiston.

The same.....r 540 B56a

Well known general descriptive and theoretical treatise. Also describes numerous practical applications of chemistry to the arts.

Blücher, H.

r 540 B568

Die chemie in ihren grundzügen. [1899.] (Miniatur-bibliothek.)

Brief elementary outline of inorganic chemistry.

Bolton, Henry Carrington.

r 540 B61

[Chemistry; a collection of pamphlets. 1876-98.]

Contents: Early American chemical societies.—Chemical literature.—The book of the balance of wisdom.—Berthelot's contributions to the history of chemistry.—The behavior of natural sulphides with iodine and other reagents.—Application of organic acids to the examination of minerals.—Ancient methods of filtration.—The early practice of medicine by women.—Historical notes on the gold-cure.—Hysterical chemistry.—Iatro-chemistry in 1897.—Legends of sepulchral and perpetual lamps.—The revival of alchemy.—Papyrus Ebers, the earliest medical work extant.—The Porta Magica, Rome.—Progress of chemistry as depicted in apparatus and laboratories.—Recent progress in chemistry.—A relic of astrology.—Researches on musical sand in the Hawaiian islands and in California.—Report of the committee on spelling and pronunciation of chemical terms.—Sixteenth annual report of the committee on indexing chemical literature.—Bibliography of analytical chemistry for 1887.—Bibliography of analytical and applied chemistry for the year 1891.—A bibliography of analytical and applied chemistry for

Bolton, Henry Carrington—*continued*.

r 540 B61

the year 1892.—Occurrence of microscopic crystals in the vertebrae of the toad.—A bibliography of chemistry for 1887.—Catalogue of chemical periodicals.—Index to the literature of manganese.—Index to the literature of uranium.

Brownlee, Raymond Bedell, and others.

540 B82

First principles of chemistry. Rev. ed. 1915. Allyn.

Written by five high school teachers who are appointed a joint committee of two organizations of New York science teachers to prepare a syllabus for a first course in chemistry. The syllabus, which has been adopted for New York state by the Department of education, forms the basis of the present text-book.

Comstock, John Lee.

r 540 C73

Elements of chemistry, in which the recent discoveries in the science are included and its doctrines familiarly explained; designed for the use of schools and academies. Ed.45. 1840. Robinson.

Jones, Thomas P.

r 540 J41

New conversations on chemistry, adapted to the present state of that science; wherein its elements are clearly and familiarly explained, on the foundation of Mrs Marcet's "Conversations on chemistry." 1834. Grigg.

Kahlenberg, Louis, & Hart, E. B.

540 K11c

Chemistry and its relations to daily life; a textbook for students of agriculture and home economics in secondary schools. 1913. Macmillan.

Does not go deeply into chemical theory, but explains fundamentals clearly and satisfactorily. Gives good semi-technical exposition of chemistry in its application to various important industries. Special attention to agriculture.

Keating, William Hypolitus.

r 540 K15

Conversations on chemistry, in which the elements of that science are familiarly explained and illustrated by experiments, from the eighth London edition. Ed.10, rev. 1824. Silver.

Letts, Edmund Albert.

540 L65

Some fundamental problems in chemistry, old and new. 1914. Van Nostrand.

"Under older chemistry...there is nothing especially interesting or novel...The newer chemistry as understood by the author, deals with the effects of electrical discharges on gases in high vacua, radioactivity, Lockyer's theory of inorganic evolution, and Arrhenius's views on the birth and death of worlds. This part is admirable though distinctly not critical." *Science*, 1914.

Newell, Lyman Churchill.

540 N27

Descriptive chemistry. Rev. ed. 2v. in 1. 1913. Heath.

Contents: Descriptive chemistry.—Experiments.

"Reference books and supplementary reading," p.450-451.

Characterized by careful statements, omission of unimportant matter and readable. An elementary text-book suitable for secondary schools.

Pennsylvania University.

r 540 P39

[Theses on subjects in chemistry.] 1910-11.

Contents: Atomic weight of vanadium, by D. J. McAdam.—Atomic weights of chlorine and bromine determined in the electrolytic way, by J. S. Goldbaum.—Determination of manganese by various gravimetric methods, by G. V. Brown.—Action of salicylic acid upon the metallic acids, by J. H. Müller.—Constitution of marcasite and pyrite, by G. W. Plummer.—Use of sulphur monochloride in the decomposition and analysis of rare earth minerals, by W. B. Hicks.

Ramsay, Sir William.

540 R18a

Modern chemistry. Ed.5. 2v. 1909. (Temple primers.)

v.1. Theoretical chemistry.

v.2. Systematic chemistry.

An outline, by a noted English chemist, of chemical knowledge at the end of the 19th century. The treatment is largely from the physical side.

Schmidt, Ernst Albert.

r 540 S34

Ausführliches lehrbuch der pharmazeutischen chemie. Ed.5, enl. 2v. in 3. 1907-II.

v.1. Anorganische chemie.

v.2, pt.1-2. Organische chemie.

"Verzeichnis einiger älterer autoren," v.1, p.1190-1193, v.2, pt.2, p.2198-2205.

A standard German work.

Simon, William, & Base, Daniel.

540 S59

Manual of chemistry; a guide to lectures and laboratory work for beginners in chemistry, a text-book specially adapted for students of medicine, pharmacy and dentistry. Ed.10, rev. 1912. Lea.

The same. Ed.8, rev. 1905.....r 540 S59a

Alchemy

Becher, Johann Joachim.

r 540.1 B36

Joh. Joachimi Beccheri Physica subterranea profundam subterraneorum genesin, e principiis hucusque ignotis, ostendens; opus sine pari, primum hactenus & princeps, editio novissima; præfatione utili præmissa, indice locupletissimo adornato, sensuumque & rerum distinctionibus, libro tersius & curatius edendo, operam navavit, & Specimen Beccherianum, fundamentorum, documentorum, experimentorum, subjunxit Georg. Ernestus Stahl. 1703.

Contains three supplements entitled "Experimentum chymicum novum," "Demonstratio philosophica; seu, Theses chymicæ," and "Experimentum novum ac curiosum de minera arenaria perpetua."

The most important of Becher's numerous works. Becher is famous chiefly for his theory of combustion, subsequently developed by Stahl into the phlogiston theory. He is noted also as a miner and metallurgist.

Redgrove, Herbert Stanley.

540.1 R27

Alchemy, ancient and modern; being a brief account of the alchemical doctrines and their relations, to mysticism on the one hand, and to recent discoveries in physical science on the other hand, together with some particulars regarding the lives and teachings of the most noted alchemists. 1910. McKay.

Stahl, Georg Ernst.

r 540.1 B36

Specimen Beccherianum, sistens fundamenta, documenta, experimenta, quibus principia mixtionis subterraneæ & instrumenta naturalia atque artificialia demonstrantur; ex autoris scriptis, colligendo, corrigendo, connectendo, supplendo, concinnatum, exhibit Georg. Ernestus Stahl. 1703.

Bound with Becher, J. J. Joh. Joachimi Beccheri Physica subterranea.

Essays

Bird, Robert Montgomery, b. 1867, ed. 540.4 B48

Modern science reader, with special reference to chemistry. 1911. Macmillan.

"Regarding additional reading," p.322-323.

Collection of short, trustworthy articles dealing mainly with chemistry and its applications. Reprinted from recent publications to provide suggestive and stimulating collateral reading for students.

Periodicals. Societies

r 540.5 A51

American chemical journal; general index, v.21-50, 1899-1913.

In Jan. 1914 this was incorporated in the "Journal of the American Chemical Society" (r 540 J466).

For earlier indexes and for volumes of magazine see preceding catalogue, v.1.

r 540.5 A613

Annales de chimie et de physique; table des matières, v.331-360, 1894-1903.

For earlier indexes and for volumes of magazine see preceding catalogue, v.1.

r 540.5 A613

Annales de chimie [monthly], 1789-date. v.1-date. 1789-date.

v.97-390, 1816-1913, title reads "Annales de chimie et de physique."

———Table des matières, v.1-360, 1789-1903. 12v.

qr 540.5 C4212

Chemical news and journal of physical science; index, v.1-100, 1860-1909.

For volumes of magazine see preceding catalogue, v.1.

r 540.5 A6132

Justus Liebig's Annalen der chemie; general-register, v.277-380, 1893-1911.

For earlier indexes and for volumes of magazine see preceding catalogue, v.1, under title "Annalen der pharmacie."

American Chemical Society—Pittsburgh section.

r 540.6 A51

By-laws and membership; rev. June 1, 1913, 1915. [1913?-15.]

Manuals

Chemical Rubber Company, Cleveland.

r 540.8 C421

Handbook of chemistry and physics; a ready-reference pocket book of chemical and physical data; comp. from the most recent authoritative sources [by W. R. Veazey and C. D. Hodgman]. 1915.

"Bibliography," p.343-351.

A judicious selection of the more important tables.

r 540.8 C42

Chemiker-kalender; ein hilfsbuch für chemiker, physiker, mineralogen, industrielle, pharmazeuten, hüttenmänner, u. s. w., von Rudolf Biedermann, 1912, 1914-16. 1912-16.

Two volumes to a year.

Tables of chemical, physical and physico-chemical constants, with brief explanatory and descriptive text. More complete than "Van Nostrand's chemical annual."

r 540.8 C4212

Chemists' year book, 1916; ed. by F. W. Atack. 2v. 1916. Sheratt.

History

Brown, James Campbell.

540.9 B78

History of chemistry from the earliest times till the present day.
1913. Churchill.

"Biographical note," by H. H. Brown, p.17-25.

"List of publications by Dr Campbell Brown," p.27-29.

Based on lectures at Liverpool University. Interesting in treatment. Particular attention to early history.

Ekecrantz, Thor Emanuel.

r 540.9 E42

Geschichte der chemie; kurzgefasste darstellung; aus dem schwedischen original vom verfasser bearbeitet. 1913.

"Literaturverzeichnis," p.231.

Concise, interesting history of chemistry by periods. Biographical sketches of the leading investigators of each period are given at ends of chapters.

Fournier d'Albe, Edmund Edward.

540.9 F84

Contemporary chemistry; a survey of the present state, methods and tendencies of chemical science. 1911. Constable.

Popular, descriptive review, attempting to cover briefly the entire field of modern chemistry. Concludes that chemistry is "ready to split up into two already existing sciences. Physics is disposed to absorb the large-scale phenomena, while biology will probably in the end annex the phenomena of atomic proportions."

Jones, Harry Clary.

540.9 J41

A new era in chemistry; some of the more important developments in general chemistry during the last quarter of a century. 1913. Van Nostrand.

"The 'new era' referred to...marks roughly the beginning of the transition from a system into a science of chemistry. This transition was effected by means of certain generalizations, which were discovered for the most part between 1865 and 1888." *Book*, p.17.

Special attention to the work of Van't Hoff, Arrhenius and Ostwald.

Ramsay, Sir William.

540.9 R18

Gases of the atmosphere; the history of their discovery. Ed.4.
1915. Macmillan.

"Discovery of argon," p.148-233.

Written for persons without special scientific training.

Smith, Edgar Fahs.

540.9 S64

Chemistry in America; chapters from the history of the science in the United States. 1914. Appleton.

Compilation of historical material rather than a history. Includes reprints of addresses and publications of historic interest, and biographical sketches of Priestley, Robert Hare, Silliman, J. Lawrence Smith, Genth, Wolcott Gibbs, Cooke, Willard Gibbs and others.

Thorpe, Sir Thomas Edward.

540.9 T41

History of chemistry. v.2. 1910. Putnam. (History of the sciences.)

v.2. From 1850 to 1910.

"Bibliography," v.2, p.187-190.

By author of "Dictionary of applied chemistry." Gives briefly the important facts.

For v.1 see preceding catalogue, v.6.

Tilden, Sir William Augustus.

540.9 T46

Progress of scientific chemistry in our own times. Ed.2. 1913.
Longmans.

"Biographical notes" at the end of each chapter; "Important events arranged in chronological order," p.357-360.

541 Theoretical chemistry

Hunt, Thomas Sterry.

r 541 H94

New basis for chemistry; a chemical philosophy. Ed.3. 1891.
Scientific Pub. Co.

Author's principal publications on chemistry, p.1-6.

Physical chemistry

Jellinek, Karl.

r 541.I J24

Lehrbuch der physikalischen chemie. v.1-2. 1914-15.

v.1-2. Die lehre von den aggregatzuständen.

"Bibliographisches; literatur," v.1, p.17-34.

Jones, Harry Clary.

541.I J41

Elements of physical chemistry. Ed.4, rev. & enl. 1915. Macmillan.

A summary of investigations made by the oldest physicists, as well as an account of those instituted by the later physical chemists. The work is characterized by the author's usual clarity and precision.

Kremann, Robert Konrad.

541.I K41

Application of physico-chemical theory to technical processes and manufacturing methods; tr. from the German by H. E. Potts and ed. by Albert Mond. 1913. Constable.

Contents: The two fundamental laws of the mechanical theory of heat.—Reaction-velocity and catalyses.—Other special applications of the law of mass action, the influence of temperature on the equilibrium-constant.—Dissociation pressure, application of the phase rule.—The application of the phase rule to solid-liquid systems.—Transformation phenomena in hydraulic binding agents.—Other applications of the phase rule, the distribution law, absorption compounds, reciprocal pairs of salts.

Useful and interesting book. Applies theories of physical chemistry to specific industrial processes, such as the Deacon process for chlorin, contact method for sulphuric acid, and many others.

Philip, James Charles.

541.I P49

Physical chemistry; its bearing on biology and medicine. Ed.2 [enl.]. 1913. Longmans.

Clearly written. Requires only a comparatively elementary knowledge of chemistry and physics.

Catalysis. Colloids

Burton, Eli Franklin.

541.I2 B95

Physical properties of colloidal solutions. 1916. Longmans. (Monographs on physics.)

"Bibliography" at the end of each chapter.

Subject is considered mainly with reference to its bearing on the development of physics.

"Though the book is published in 1916, the manuscript was apparently finished before the middle of 1914...The chief value of the book...is in showing what parts of colloid chemistry interest the physicist." *Wilder D. Bancroft, in Journal of physical chemistry, 1916.*

Cassuto, Leonardo.

541.I2 C26

Der kolloide zustand der materie; autorisierte deutsche übersetzung von Johann Matula. 1913.

Brief treatment, presenting clearly the important general principles, without considering the refinements of theory demanded by the pure physicist or chemist.

Findlay, Alexander.

541.12 F49a

Phase rule and its applications. .Ed.3 [rev.]. 1911. Longmans. (Text-books of physical chemistry.)

Lucid non-mathematical elementary exposition. Explains the underlying principles and illustrates their practical application. Sir William Ramsay's "Introduction" is an interesting rapid survey of the main lines along which the development of physical chemistry has proceeded.

Frankforter, George Bell, & Kritchevsky, Wolf.

qr 541.12 F87

A new phase of catalysis. pt.1. 1914. (Minnesota University. Studies in the physical sciences and mathematics, no.2.)

pt.1. The action of chloral, chloral hydrate and bromal on certain organic compounds in the presence of aluminum chloride.

Hatschek, Emil.

541.12 H34

Introduction to the physics and chemistry of colloids. 1913. Churchill. (Text-books of chemical research and engineering.)

Reprinted from the "Chemical world."

Excellent introduction to the fundamental facts and methods of investigation.

Jobling, Edgar.

541.12 J33

Catalysis and its industrial applications. 1916. Blakiston. (Text-books of chemical research and engineering.)

Reprinted from the "Chemical world."

Good introduction to the subject. Applications to various industries and processes include sulphuric acid, chlorin, salt cake, nitrogen fixation, surface combustion, hydrogenation and hydrolysis.

Ostwald, Karl Wilhelm Wolfgang.

541.12 O29h

Handbook of colloid-chemistry; the recognition of colloids, the theory of colloids and their general physico-chemical properties; tr. from the third German edition by M. H. Fischer with the assistance of R. E. Oesper and Louis Berman. 1915. Longmans.

Rohland, Paul.

541.12 R62

The colloidal and crystalloidal state of matter; tr. by W. J. Britland and H. E. Potts. 1911. Van Nostrand.

For the general reader rather than the specialist. Treats briefly history and technical applications of colloids and distinguishes between colloids and crystalloids.

Sabatier, Paul, of Toulouse.

r 541.12 S11

La catalyse en chimie organique. 1913. (Encyclopédie de science chimique appliquée, v.3.)

Taylor, W. White.

541.12 T25

Chemistry of colloids and some technical applications. 1915. Longmans.

Merely a compilation and not without inaccuracies, but useful by reason of the scarcity of books in English on this subject.

qr 541.1205 Z43

Kolloid-zeitschrift; zeitschrift für wissenschaftliche und technische kolloidchemie [monthly], July 1906-date. v.1-date. 1906-date.

v.1-12, July 1906-June 1913, title reads "Zeitschrift für chemie und industrie der kolloide (kolloid-zeitschrift)."

Electrochemistry

Abegg, Richard, *and others, comp.*

r 541.17 A13

Messungen elektromotorischer kräfte galvanischer ketten mit wässrigen elektrolyten. 1911. (Deutsche Bunsen-Gesellschaft für Angewandte Physikalische Chemie. Abhandlungen, no.5.)

"Literaturübersicht über messungen elektromotorischer kräfte galvanischer ketten mit wässrigen elektrolyten," p.1-108.

Object is to summarize all the observed electromotive forces of reversible systems that they may be available for the consideration of the general problem of affinity.

"The book is well worth the enormous amount of labor spent upon it. It is absolutely necessary as a reference book." *Wilder D. Bancroft, in Journal of physical chemistry, 1912.*

Allmand, Arthur John.

541.17 A43

Principles of applied electrochemistry. 1912. Longmans.

"Index of authors and firms," p.532-536.

Comprehensive treatment. Excellent advanced text-book of general electrochemistry, its actual application and the methods and apparatus used for special processes.

American Electrochemical Society.

r 541.17 A51

Transactions; index, v.1-20, 1902-11.

For volumes of transactions see preceding catalogue, v.4.

Burgess, Charles Frederick, & Cravens, G. W.

541.17 B89

Applied electrochemistry and welding; a practical treatise on commercial chemistry, the electric furnace, the manufacture of ozone and nitrogen by high tension discharges and the applications of electric, gas and chemical welding to manufacturing and repair work. 1914. Amer. Technical Soc.

Contents: Applied electrochemistry, by C. F. Burgess.—Welding, by G. W. Cravens.

Förster, Friedrich.

qr 541.17 F78a

Elektrochemie wässriger lösungen. Ed.2, enl. 1915. (Bredig, Georg, ed. Handbuch der angewandten physikalischen chemie, v.1.)

Bibliographical foot-notes.

Deals with electrochemical theory, and with methods for the separation and determination of the various gaseous and metallic elements.

Hollard, Auguste.

r 541.17 H72

La théorie des ions et l'électrolyse. Ed.2. 1912.

Useful record of much experimental work done on electrolysis, interpreted according to theory of ionization.

r 541.17 K11

Kalender für elektrochemiker, sowie technische chemiker u. physiker; beilage, 1897; hrsg. von A. Neuburger.

Liebenow, Karl Heinrich Joachim Bernhard.

r 541.17 L68

Der elektrische widerstand der metalle. 1897. (Encyklopädie der elektrochemie, v.10.)

Deals both with pure metals and alloys. Chiefly theory, with results of a few specific observations.

Löb, Walter.

r 541.17 L75g

Grundzüge der elektrochemie. 1897.

Concise, practical presentation of fundamentals.

Peters, Franz. r 541.17 P45
 Angewandte elektrochemie. 3v. in 1. 1897-98. (Hartleben's elektro-technische bibliothek.)

Contents: Die primär- und sekundär-elemente.—Anorganische elektrochemie: Elektrochemie der metalloide und der alkalimetalle; Elektrochemie der erdalkali-, erd- und schwermetalle.—Organische elektrochemie.

p.273-284 of v.2, pt.1 wanting.

Contains bibliographies.

Attempts to cover subject fully. Includes lists of patents of various countries.

Scudder, Heyward. r 541.17 S43

Electrical conductivity and ionization constants of organic compounds; a bibliography of the periodical literature from 1889 to 1910 inclusive. 1914. Van Nostrand.

Smith, Edgar Fahs. 541.17 S64

Elements of electrochemistry. 1913. Winston.

A pocket-book in size. Subject is treated historically, according to its development by the great investigators. Extracts from writings of Davy, Faraday, Berzelius, Ostwald, Nernst and others are used largely in explanation of facts and theories.

Thompson, Maurice de Kay. 541.17 T38

Applied electrochemistry. 1911. Macmillan.

With bibliographical foot-notes.

Contains some theoretical discussion and brief descriptions of many processes. Includes electrolysis in the wet way and electric furnace products.

Atomic theory

Jones, Harry Clary. 541.2 J41a

The freezing-point, boiling-point and conductivity methods. Ed.2, rev. 1912. Chemical Pub. Co.

Short laboratory guide to the use of these methods of molecular weight and conductivity determinations.

Parson, Alfred Locke. r 506 S66m.v.65

A magneton theory of the structure of the atom. 1915. (In Smithsonian Institution. Miscellaneous collections, v.65, no.11.)

Roozeboom, Hendrik Willem Bakhuis. r 541.2 R68

Die heterogenen gleichgewichte vom standpunkte der phasenlehre. v.3, pt.2. 1913.

v.3, pt.2. Systeme mit zwei und mehr flussigkeiten ohne mischkristalle und ohne dampf, von F. A. H. Schreinemakers.

For earlier volumes see preceding catalogue, v.4, 6.

Veitch, John. 541.2 V24

Lucretius and the atomic theory. 1875. Maclehose.

Commentary on the "De rerum natura" of Lucretius, probably first published in 54 B. C.

"Lucretius has, in his conception of atomic transition from individual to individual through the changes of life and death, very closely anticipated the root idea of the modern doctrine of the Transformation of Energy; as his view of the impossibility of the annihilation of the primordia, and the absolute undiminishableness of the sum of matter, is explicitly that of the Conservation of Matter." *Book, page 33.*

Venable, Francis Preston. 541.2 V25d

Development of the periodic law. 1896. Chemical Pub. Co.

Bibliography, p.285-308.

Solubility

Arrhenius, Svante August. 541.8 A77

Theories of solutions. 1912. Yale University Press. (Yale University. Silliman memorial lectures.)

"Bibliographical references," p.226-238.

Treatment is generally historical in method. Only three chapters are devoted specifically to electrolytic solutions.

Jaques, Arthur. 541.8 J18

Complex ions in aqueous solutions. 1914. Longmans.

Describes particularly experimental methods used in investigating solutions of various electrolytes.

Jones, Harry Clary. qr 541.8 J41e

Electrical conductivity, dissociation and temperature coefficients of conductivity from zero to 65 degrees of aqueous solutions of a number of salts and organic acids; the experimental work by A. M. Clover [and others]. 1912. (Carnegie Institution of Washington. Publication no.170.)

"Conductivities and dissociations of about 110 of the more common salts have been worked out...over a range of dilution extending from about the most concentrated solution that could be used to the dilution of complete dissociation." *Preface.*

Jones, Harry Clary, and others. qr 541.8 J41co

Conductivities and viscosities in pure and in mixed solvents; radio-metric measurements of the ionization constants of indicators, etc. 1915. (Carnegie Institution of Washington. Publication no.230.)

With this is bound "Energy transformations during horizontal walking," by F. G. Benedict and Hans Murschhauser.

Jones, Harry Clary, and others. qr 541.8 J41f

The freezing-point lowering, conductivity and viscosity of solutions of certain electrolytes in water, methyl alcohol, ethyl alcohol, acetone and glycerol, and in mixtures of these solvents with one another. 1913. (Carnegie Institution of Washington. Publication no.180.)

Morse, Harmon Northrop. qr 541.8 M92

Osmotic pressure of aqueous solutions; report on investigations made in the chemical laboratory of the Johns Hopkins University during the years 1899-1913. 1914. (Carnegie Institution of Washington. Publication no.198.)

Detailed description of apparatus used in determinations. Solutions used were of cane sugar, glucose, mannite, and of electrolytes.

Tables. Calculations

Chauvenet, Regis. 541.9 C41

Chemical arithmetic and calculation of furnace charges. 1912. Lip-pincott.

Consists largely of problems, with brief explanatory sections. Adapted for text or practical use.

Landolt, Hans, & Börnstein, Richard, comp. qr 541.9 L22p2

Physikalisch-chemische tabellen; hrsg. von Richard Börnstein und W. A. Roth. Ed.4, rev. & enl. 1912.

Contains many bibliographies.

Thorpe, Sir Thomas Edward.

r 541.9 T41

Series of chemical problems, with key, for use in colleges and schools, adapted for the preparation of students for the government science and Society of Arts examinations, with a preface by Sir H. E. Roscoe. 1885. Macmillan.

542 Experimental chemistry

Laboratories. Apparatus

Dreaper, William Porter.

542 D81

Notes on chemical research; an account of certain conditions which apply to original investigation. 1913. Churchill. (Text-books of chemical research and engineering.)

Reprinted from the "Chemical world."

"An attempt has been made to state, in general terms, the conditions which have been regarded as essential to success. The influence and importance of the results already obtained by investigation have been generally noticed, and the recent advance in the conditions of training and facilities for research have not been overlooked." *Preface.*

Japan—Agriculture and commerce, Department of.

r 542.1 J18

Industrial laboratory [of the Department of agriculture and commerce of Japan. 1909?]

Outlines history and organization of the laboratory and reports some investigations in the field of industrial chemistry.

Johnson, Valentine Edward.

j 542.2 J36

Chemistry and chemical magic. 1912. Hodder. (Playbooks of science.)

Book of chemical tricks and experiments, with laboratory directions and a chapter on presentation of experiments.

Bühler, F. A.

542.6 B86

Filtern und pressen zum trennen von flüssigkeiten und festen stoffen. 1912. Spamer. (Chemische technologie in einzeldarstellungen; allgemeine chemische technologie.)

Patentliteratur, p.105-140.

Refers almost wholly to actual apparatus used or proposed for filtering, with or without pressing. Describes types of filters and processes used in special industries.

Bühler, F. A.

542.6 B86f

Filters and filter presses for the separation of liquids and solids; from the German, with additional matter relating to the theory of filtration and filtration in sugar factories and refineries, by J. J. Eastwick. 1914. Rodger.

"Patents granted in the United Kingdom relating to filters, filter presses, etc." p.168-179.

Descriptive. Deals largely with German practice.

Watts, Oliver Patterson.

542.8 W33

Laboratory course in electrochemistry. 1914. McGraw.

Contains references.

Embodies notes by C. F. Burgess, formerly in charge of chemical engineering at University of Wisconsin. Deals with electrochemistry in aqueous solution. Does not consider electric furnace nor organic preparations. Considerable attention to electroplating. Electro-analysis and electrolytic separation of metals considered briefly.

543 Analytical chemistry

See also Adulterations, 614.3

Allen, Alfred Henry.

543 A42a

Commercial organic analysis; ed. by Henry Leffmann [and others].

Ed.4, rewritten. v.6-8. 1912-13. Blakiston.

v.6. Organic bases.—Vegetable alkaloids.

v.7. Alkaloids.—Animal bases and acids.—Glucosides.—Cyanogen.

v.8. Enzymes.—Proteins.—Milk.—Meat.—Hæmoglobin.—Proteoids.—Fibroids.

For v.1-5 see preceding catalogue, v.6.

The same. Ed.4, rewritten. v.1-8. [1912-15.].....r 543 A42a**Lunge, George, ed.**

543 L97t

Technical methods of chemical analysis; English translation from the latest German edition, adapted to English conditions of manufacture; ed. by C. A. Keane. v.3 in 2. 1914. Gurney.

For v.1-2 see preceding catalogue, v.6.

The same. v.2-3 in 4. 1911-14.....r 543 L97t

Valuable both for reference and as a laboratory manual. Methods of many industries are considered, each by an experienced analyst.

Margosches, B. Max, ed.

r 543 M38

Die chemische analyse; sammlung von einzeldarstellungen auf dem gebiete der chemischen, technisch-chemischen und physikalisch-chemischen analyse. v.14-22, in 5. 1912-15.

v.14-15. Die analyse der seltenen erden und der erdsäuren; ceriterden, yttererden, zirkonerde und thorerde, titansäure, niobsäure und tantalsäure, von R. J. Meyer und O. Hauser.

v.16. Die bestimmungsmethoden des nickels und kobalts und ihre trennung von den anderen elementen, von H. Grossmann.

v.17-18. Die bestimmungsmethoden des arsens, antimons und zinns und ihre trennung von anderen elementen, von H. Wöbling.

v.19-20. Der nachweis organischer verbindungen; ausgewählte reaktionen und verfahren, von L. Rosenthaler.

v.21-22. Die katalyse; die rolle der katalyse in der analytischen chemie, von Gertrud Woker.

Contains several bibliographies.

Series of monographs, each covering a special topic and intended to be complete in its field.

For v.1-13 see preceding catalogue, v.6.

Merck, E.

543 M63

Chemical reagents, their purity and tests; authorized translation of Prüfung der chemischen reagenzien auf reinheit (zweite auflage) by Henry Schenck. Ed.2, rev. 1914. Van Nostrand.

The same......r 543 M63a**Treadwell, Frederick Pearson.**

543 T71a3

Analytical chemistry; based on the text [of the eighth German edition]; tr. & rev. by W. T. Hall. Ed.4, rev. & enl. 2v. 1915-16. Wiley.

v.1. Qualitative analysis.

v.2. Quantitative analysis.

A standard work, characterized by simplicity of arrangement and judicious choice of methods, presenting only those most approved. Much more condensed than Fresenius's classic work on the subject, but sufficiently comprehensive to be valuable both for reference and as a student's text.

Wiley, Harvey Washington.

543 W71a

Principles and practice of agricultural analysis. Ed.2, rev. & enl. v.2-3. 1908-14. Chemical Pub. Co.

v.2. Fertilizers.

v.3. Agricultural products.

The standard work on the subject. Almost indispensable to the analyst and the agricultural chemist. Arranged to present historical development, emphasizing fundamental principles. Does not include all proposed methods, but favors those which have been to some extent established in practice. Agricultural analysis is seldom absolute, and results have value chiefly for comparison. The present work makes it possible to correlate and interpret results in various countries where methods and conventions differ.

For v.1 see preceding catalogue, v.6.

Periodicals

r 543.05 G33

Gesetze und verordnungen sowie gerichtsentscheidungen betreffend nahrungs- und genussmittel und gebrauchsgegenstände; beilage zur Zeitschrift für untersuchung der nahrungs- und genussmittel [monthly], 1910-date. v.2-date. 1910-date.

v.2-4, for 1910-12, will be found in *Zeitschrift für untersuchung der nahrungs- und genussmittel* (r 543.05 V31).

For v.1 see preceding catalogue, v.6.

r 543.05 Z43

Zeitschrift für analytische chemie; autoren- und sach-register, v.41-50, 1902-11.

For earlier indexes and for volumes of magazine see preceding catalogue, v.1.

Food analysis

Bolton, Edward Richards, & Revis, Cecil.

543.1 B61

Fatty foods; their practical examination; a handbook for the use of analytical and technical chemists. 1913. Blakiston.

"Full of valuable hints for the comparatively inexperienced analytical chemist. Only the methods which the authors prefer, basing their conclusions upon their long experience...are given, and this involves the omission of some familiar processes." *Chemical news*, 1913.

Leach, Albert Ernest.

q 543.1 L44

Food inspection and analysis, for the use of public analysts, health officers, sanitary chemists and food economists; rev. and enl. by A. L. Winton. Ed.3. 1913. Wiley.

Bibliography at the end of each chapter.

Useful conspectus of the whole field of food control, written more particularly from an American point of view.

Parry, Ernest John.

543.1 P26

Food and drugs. v.1. 1911. Scott.

v.1. The analysis of food and drugs (chemical and microscopical).

In spite of some evidences of hasty preparation, covers with a fair degree of thoroughness the chemical analysis of food products and drugs. Pays little attention to historical, theoretical or obsolete matters and in general presents judiciously selected methods. v.2 (not in Library) deals with food and drug legislation in England.

Woodman, Alpheus Grant.

543.1 W86

Food analysis; typical methods and the interpretation of results. 1915. McGraw. (International chemical series.)

"Selected references" at the end of each chapter.

Text-book, much narrower in scope than Leach's "Food analysis," but giving greater attention to details of analytical methods.

Milk analysis

- United States**—Animal industry bureau. r 543.2 U25
 Chemical testing of milk and cream, by R. H. Shaw. 1916.

Water analysis

- American Public Health Association.** r 543.3 A518
 Standard methods for the examination of water and sewage. Ed.2.
 1912.

Contains bibliographies.
 First edition was issued under the title "Report of Committee on standard methods of water analysis to the Laboratory section of the American Public Health Association" (r 543.3 A51).

Contains approved methods for physical, chemical, microscopical and bacteriological examination.

- Haywood, John Kerfoot.** r 543.3 H37
 Analyses of the waters of the hot springs of Arkansas, by J. K. Haywood, and Geological sketch of the hot springs district, by W. H. Weed. 1912. U. S. Government.

- Stocks, Herbert B.** 543.3 S86

Water analysis for sanitary and technical purposes. 1912. Griffin.

Includes only those methods for physical and chemical examination, which experience has shown to be of special value in sanitary and industrial work. Gives clearly directions for conducting experiments, and for intelligent interpretation of results.

"Not only well written, but gives a comprehensive and practical view of the subject such as is not otherwise readily accessible." *Pharmaceutical journal and pharmacist*, 1912.

Poisons

- Rambousek, Josef.** qr 543.5 R17

Gewerbliche vergiftungen, deren vorkommen, erscheinungen, behandlung, verhütung. 1911.

Bibliographical references in text.

Comprehensive and systematic treatment of poisonous industrial compounds.

- Rambousek, Josef.** 543.5 R17

Industrial poisoning from fumes, gases and poisons of manufacturing processes; tr. and ed. by T. M. Legge. 1913. Arnold.

The same.....r 543.5 R17i

"References," p.339-354.

Deals with danger from poisoning in many specific trades, discusses treatment of poisoning, and considers preventive measures. Reviews restrictive legislation in Europe.

Special inorganic analysis

Iron. Steel. Paint

- American Rolling Mill Co. Middletown, Ohio.** 543.7 A51

[Methods for the analysis of iron and steel used in laboratories of the American Rolling Mill Co., Middletown, Ohio.] 1912.

The same.....r 543.7 A51

Some of methods described are practically the same as those described in standard text-books, others are entirely new.

"Intended as an aid to experienced chemists who are thoroughly conversant with the standard methods for the analysis of iron and steel." *Preface*.

Ashby, Holden M. 543-7 A82
How to analyze clay; practical methods for practical men. Ed.10. 1909. Kenfield.

For the practical clay-worker rather than the experienced chemist. Little attention given to refinement of method.

Bauer, Oswald, & Deiss, Eugen. 543-7 B32
Sampling and chemical analysis of iron and steel; authorized translation from the German by W. T. Hall and R. S. Williams. 1915. McGraw. (International chemical series.)

Contents: The sampling of iron and steel, by O. Bauer; tr. by R. S. Williams.—Analysis of iron and steel; based on the German text by Eugen Deiss; tr. with many additions, conforming to laboratory practice in the United States, by W. T. Hall.

Pt.1 emphasizes the importance of accurate, scientific sampling, discusses the erroneous results obtained when the influence of segregation is neglected, and indicates the value of metallographic aids in sampling. Pt.2 gives in detail the accurate methods in use at the Royal Testing Bureau at Gross-Lichterfelde, Germany, supplemented by about 25 rapid methods verified in the laboratories at the Massachusetts Institute of Technology.

Gooch, Frank Austin, comp. 543-7 G62
Methods in chemical analysis; originated or developed in the Kent Chemical Laboratory of Yale University. 1912. Wiley.

Record of work of author and associates in the laboratory. Not intended as a text-book or work of general reference. Brings together valuable material published in many different journals.

Holley, Clifford Dyer. 543-7 H72an
Analysis of paint and varnish products. 1912. Wiley.

By chief chemist Acme White Lead and Color Works. Includes chemical analysis and tests of paint in service.

Johnson, Charles Morris. 543-7 J35a
Rapid methods for the chemical analysis of special steels, steel-making alloys and graphite. Ed.2, rewritten. 1914. Wiley.

Solves many special problems of analysis brought about by development of special steels. A number of methods are original with the author, who is (1914) chief chemist to the Park steel works of the Crucible Steel Company.

Krug, Karl. 543-7 K42
Die praxis des eisenhüttenchemikers; anleitung zur chemischen untersuchung des eisens und der eisenerze. 1912.

Intended for use both as text-book and as guide for the iron and steel works chemist. Claims to give special attention to rapid methods. Includes methods for special steels.

Ledebur, Adolf. 543-7 L51
Leitfaden für eisenhütten-laboratorien; neu bearbeitete auflage von W. Heike. Ed.9. 1911.

Collection of tested methods for the analysis of iron, iron ores and slags. Author is a well known authority on the chemistry of iron.

Lord, Nathaniel Wright, & Demorest, D. J. 543-7 L86a
Metallurgical analysis. Ed.3. 1913. McGraw. (International chemical series.)

Laboratory guide for students of analytical chemistry as applied to metallurgy. Concise but comprehensive.

Low, Albert Howard. 543-7 L95
Technical methods of ore analysis. Ed.6, rev. & enl. 1913. Wiley.
Describes methods of determining the constituents usually present, suitable for commercial and works laboratories.

Lunge, George. 543.7 L97t

Technical chemists' handbook; tables and methods of analysis for manufacturers of inorganic chemical products. 1910. Van Nostrand.

Physical and chemical tables, and methods of technical analysis for various industries, such as manufacture of acids, saltcake, bleaching-powder, soda ash, ammonia, cement, fertilizers, calcium carbide, and alumina preparations.

Schaeffer, John Ahlum, & White, B. S. 543.7 S29

Chemical analysis of lead and its compounds. 1912. Picher Lead Co.

The same r 543.7 S29

Contains some new methods which are both rapid and accurate. Authors are (1912) with Picher Lead Co. as "chief of laboratory, and director of research" and "assistant chemist," respectively.

United States Steel Corporation—Chemists' committee. r 543.7 U25mc

Methods of the Chemists' committee for the analysis of alloy steels. [1915. Pittsburgh.]

United States Steel Corporation—Chemists' committee. 543.7 U25a

Methods of the United States Steel Corporation for the commercial sampling and analysis of iron ores. [Ed.2.] 1914.

The same. [Ed.2.] 1914..... r 543.7 U25a

Methods here standardized are to be used to the exclusion of all others.

United States Steel Corporation—Chemists' committee. 543.7 U25m

Methods of the United States Steel Corporation for the commercial sampling and analysis of pig iron. 1912.

The same r 543.7 U25m

Standard methods recommended after consideration of all methods used in the various laboratories of the corporation.

United States Steel Corporation—Chemists' committee. r 543.7 U25me

Methods of the United States Steel Corporation for the commercial sampling and analysis of plain steels. 1914.

Walker, Percy Hargraves. q 543.7 W17

Some technical methods of testing miscellaneous supplies, including paints and paint materials, inks, lubricating oils, soaps, etc. 1916.

Reprinted, with notes and corrections, from Bulletin 109 of the United States chemistry bureau, by the Bureau of standards.

The same. 1908. (In United States—Chemistry bureau. Bulletin no.109.) r 630.6 U2533

Special organic analysis

Gas. Oils. Fats. Waxes

Gill, Augustus Herman. 543.8 G39g

Gas and fuel analysis for engineers; a compend for those interested in the economical application of fuel. Ed.6, rev. & enl. 1912. Wiley.

Concise statements of the methods used in testing the efficiency of a boiler plant. Includes analysis of flue gases, solid, liquid and gaseous fuels, and methods of calorimetry.

- Glikin, Woldemar.** qr 543.8 G49
Chemie der fette, lipoide und wachsarten. 2v. 1912-13.
v.1. Allgemeine, physikalische, physiologische und analytische chemie der fette, lipoide und wachsarten.
v.2. Beschreibung, darstellung und untersuchung der natürlichen fette, öle und wachsarten, sowie der chemisch-technischen fettprodukte.
Deals with chemical analysis, general chemistry and preparation of oils, fats and waxes, and with manufacture of soap, varnish, glycerin and stearin. Special attention to physiological chemistry and to chemistry of the lipoids.
"Author's aim has been to produce a connected treatment of the whole subject, and his book is probably the most complete work of the kind yet published." *Nature*, 1913.
- Ingle, Harry.** 543.8 I24
Manual of oils, resins and paints for students and practical men.
v.1. 1915. Griffin. (Griffin's technological hand-books.)
v.1. Analysis and valuation.
- Lewkowitsch, Julius.** r 543.8 L67c3
Chemical technology and analysis of oils, fats and waxes. Ed.5, rewritten & enl. 3v. 1913-15. Macmillan.
Founded on Benedikt's "Analyse der fette und wachsarten."
The standard work in English on the subject (1905).
- Mulliken, Samuel Parsons.** qr 543.8 M96
Method for the identification of pure organic compounds by a systematic analytical procedure based on physical properties and chemical reactions. v.2. 1916. Wiley.
v.2. Classified descriptions of about 4,000 of the more important compounds of carbon with the elements nitrogen, hydrogen and oxygen.
Binder's title reads "Identification of pure organic compounds."
For v.1, 3 see preceding catalogue, v.4, 6.
- Stillman, Thomas Bliss.** 543.8 S85
Examination of lubricating oils. 1914. Chemical Pub. Co.
"References," p.120.
Concise laboratory manual of testing animal, vegetable and mineral oils. Gives specifications.
- White, Alfred Holmes.** 543.8 W63
Technical gas and fuel analysis. 1913. McGraw. (International chemical series.)
Clear, comprehensive treatment, in condensed form, of best practice in commercial gas and fuel analysis and testing.

544 Qualitative analysis

- Harris, Elijah Paddock.** r 544 H29
Manual of qualitative chemical analysis. Rev. ed. 1900. Carpenter.
- Noyes, William Albert.** 544 N48a
Elements of qualitative analysis; rev. in collaboration with the author by G. M. Smith. Ed.6, rev. 1911. Holt.
Contains only schemes including the common elements. The directions are clear and simple.
- Prescott, Albert Benjamin, & Johnson, O. C.** 544 P92
Qualitative chemical analysis; a guide in qualitative work, with data for analytical operations and laboratory methods in inorganic chemistry, with an appendix by H. H. Willard containing a few improved

Prescott, Albert Benjamin, & Johnson, O. C.—*continued.* 544 P92
methods of analysis. Ed.6, rev., enl. and rewritten. 1911. Van Nostrand.

"A carefully compiled and condensed small encyclopedia of analytical and inorganic chemistry, containing a tremendous amount of information logically arranged and concisely stated." *School of mines quarterly*, 1901.

Städeler, Georg Andreas Karl. r 544 S77

Leitfaden für die qualitative chemische analyse anorganischer körper [hrsg.] von Hermann Kolbe. Ed.7, rev. & enl. 1876.

Stieglitz, Julius Oscar. 544 S85

Elements of qualitative chemical analysis, with special consideration of the application of the laws of equilibrium and of the modern theories of solution. 2v. 1911-12. Century.

v.1. Fundamental principles and their application.

v.2. Laboratory manual.

"The first volume...represents the greatest advance in the presentation of the principles of analytical chemistry which has been made since the publication in 1894 of the first edition of Ostwald's 'Wissenschaftliche Grundlagen der analytischen Chemie'... There is perhaps no other book which so well presents a survey of the important fundamental problems which the workers in the field of the theory of solutions are now endeavoring to solve." *William D. Harkins, in Journal of the American Chemical Society*, 1912.

Chamot, Émile Monnin. 544.8 C35

Elementary chemical microscopy. 1915. Wiley.

"Reference books," p.397-398.

Discusses selection and manipulation of the microscope and the importance of its application to problems of the chemical laboratory.

Kley, P. D. C. qr 544.8 K32

Behrens-Kley mikrochemische analyse; zugleich dritte auflage der Anleitung zur mikrochemischen analyse, von H. Behrens. 2v. 1915.

v.1. [Text.]

v.2. Tabellen zur systematischen bestimmung der mineralien mittels mikrochemie und physikalischer konstanten.

545 Quantitative analysis

Clowes, Frank, & Coleman, J. B. 545 C62a

Quantitative chemical analysis, adapted for use in the laboratories of colleges and schools. Ed.10. 1914. Churchill.

"List of books for reference," p.542-543.

"Barring the translation of the Fresenius by Cohn, we know of no work on quantitative analysis in the English language which contains so much useful, reliable and varied information." *Journal of the American Chemical Society*, 1910.

Gooch, Frank Austin. 545 G62

Representative procedures in quantitative chemical analysis. 1916. Wiley.

Explicit directions for various approved and widely accepted methods.

"Noteworthy and valuable addition to the literature of analytical chemistry...The richness of the author's experience is reflected in many unusual suggestions as to technique and reagents." *H. P. Talbot, in Science*, 1916.

Kingscott, P. C. R. & Knight, R. S. G. 545 K27

Methods of quantitative organic analysis. 1914. Longmans.

Methods for estimation of many substances. Collected from various sources, citing original references. Arrangement is not fully satisfactory and there is but little criticism or comparison of methods.

Assaying

Smith, Ernest Alfred.

545 S64

Sampling and assay of the precious metals; comprising gold, silver, platinum and the platinum group metals in ores, bullion and products. 1913. Griffin.

Contains bibliographies.

Assaying operations are discussed at length, though little of the material is new. Describes ore sampling thoroughly, also design and equipment of assay offices. Carefully prepared and well illustrated.

Wraight, E. A.

545 W92

Assaying in theory and practice. [1914.] Longmans.

"The book...is excellent and as regards arrangement of subject-matter...and general get-up, we have no hesitation in pronouncing it the best of its kind. It does not claim to be a complete work on assaying, but is particularly adapted to the requirements of the mine assayer and prospector." *Ironmonger*, 1915.

Electro-analysis

Classen, Alexander.

r 545-3 C53n

Neuerungen in der quantitativen analyse durch elektrolyse. 1895. (Encyklopädie der elektrochemie, v.3.)

Separat-abdruck aus der "Zeitschrift für elektrotechnik und elektrochemie," v.1.

Classen, Alexander.

545-3 C53a

Quantitative analysis by electrolysis [written] with the coöperation of H. Cloeren; tr. from the thoroughly rev. fifth German edition by W. T. Hall. 1913. Wiley.

The same; in coöperation with Walter Löb; authorized translation from the fourth German edition by W. H. Herrick and B. B. Boltwood. Ed.3. 1898.....r 545-3 C53q2

Title reads "Quantitative chemical analysis by electrolysis."

Japing, Eduard.

r 545-3 J18

Die elektrolyse, galvanoplastik und reinmetallgewinnung, mit besonderer rücksicht auf ihre anwendung in der praxis. 1883. (Hartleben's elektro-technische bibliothek.)

Deals with theory and various industrial applications. Includes electro-analysis.

Löb, Walter.

r 545-3 L75

Unsere kenntnisse in der elektrolyse und elektrosynthese organischer verbindungen. 1896.

Brief, but rather technical.

Neumann, Bernhard.

r 545-3 N25

Theorie und praxis der analytischen elektrolyse der metalle. 1897.

Slightly different in scope from the important works on electrolytic analysis, by A. Classen and by Edgar F. Smith, which deal largely with the methods of the respective authors.

Gas analysis

Benedict, Francis Gano.

qr 545-7 B43

Composition of the atmosphere, with special reference to its oxygen content. 1912. (Carnegie Institution of Washington. Publication no.166.)

Devotes 66 pages to historical development of methods for determining oxygen. Concerned mainly with uncontaminated air, but by way of comparison gives data on street and subway air.

Dennis, Louis Munroe.

545.7 D43

Gas analysis. 1913. Macmillan.

Thorough, satisfactory description of present approved methods. Follows general plan of author's translation of the third edition of Hempel's book (1902). More attention to rapid methods of technical gas analysis than to exact methods.

Franzen, Hartwig.

545.7 F88

Exercises in gas analysis; tr. from the first German edition (with corrections and additions by the author) by Thomas Callan. 1913. Blackie.

Brief and elementary. For the beginner. Describes simple methods of analysis and gives some applications. The part on "Volumetric gas analysis" deals with analysis of solids and liquids by measuring the volumes of gas set free.

Haldane, John Scott.

545.7 H15

Methods of air analysis. 1912. Griffin.

Detailed description of practical methods for analysis of air and comparatively simple gas mixtures. Mainly methods originated or improved by author in extended experience. Appeared in part in his "Investigation of mine air."

Hempel, Walther.

r 545.7 H43g

Gasanalytische methoden. Ed.4, rev. 1913.

A standard work.

Lunge, George.

545.7 L97

Technical gas-analysis. 1914. Van Nostrand.

The best text-book in English (1916) on the sampling, measuring, detection and analysis of gases.

"The outstanding features of the book are those which the scientific world is now accustomed to associate with Dr. Lunge's name—accuracy, comprehensiveness, and attention to detail." *Chemical news*, 1914.

Colorimetry. Polarimetry

Krüss, Alexander Gerhard, & Krüss, A. H.

545.8 K42

Kolorimetrie und quantitative spektralanalyse in ihrer anwendung in der chemie; bearbeitet von Hugo Krüss und Paul Krüss. Ed.2, rev. & enl. 1909.

Rakusin, Moiseï Abramovich.

r 545.8 R16

Die polarimetrie der erdöle; ihre geschichte und gegenwärtige entwicklung, sowie ihre bedeutung für die erdölgeologie und andere zweige der naturwissenschaft. 1910.

Contents: Theoretisches.—Experimentelles.

Contains a wealth of material on polarimetric investigations of petroleum, to which author's own researches have added much. Conclusions may not be universally accepted.

546 Inorganic chemistry

Biltz, Heinrich, & Biltz, Wilhelm.

546 B48

Laboratory methods of inorganic chemistry; authorized translation by W. T. Hall and A. A. Blanchard. 1909. Wiley.

Essentially synthetic in character and intended to supplement analytical work. Arrangement is based not on periodic groups but on classification according to types of compounds, and experiments are given in detail. Primarily for advanced students. Although dealing only with processes on laboratory scale, will be suggestive to manufacturers.

"The book is admirable; it is by far the best and most thorough work on the subject which has appeared." *Science*, 1911.

Cady, Hamilton Perkins. 546 C11

Inorganic chemistry. 1912. McGraw. (International chemical series.)

Clear, logical and well arranged. Teaches subject from standpoint of elementary physical chemistry, following plan of Ostwald's "Grundlinien," but is for less advanced students.

Doelter y Cisterich, Cornelio August, ed. qr 546 D67

Handbuch der mineralchemie; unter mitwirkung von zahlreichen fachgenossen hrsg. mit unterstützung der K. Akademie der Wissenschaften in Wien. v.1-v.2, pt.1. 1912-14.

Contains bibliographies.

Summary of the results of chemical research as applied to minerals.

"Undoubtedly at present the most complete and exact summary of our knowledge of the subject." *Metallurgical and chemical engineering*, 1913.

Gmelin, Leopold. r 546 G52

Gmelin-Kraut's handbuch der anorganischen chemie, unter mitwirkung hervorragender fachgenossen; hrsg. von C. Friedheim und Franz Peters. Ed.7, rewritten. v.1-3; v.4, pt.1; v.5, pt.1-2; v.6, pt.1. 1906-14.

qr 546 H23

Handbuch der anorganischen chemie; hrsg. von Richard Abegg. v.4, pt.2. 1913. Hirzel.

v.4, pt.2. Die elemente der siebenten gruppe des periodischen systems.

For v.2-3 see preceding catalogue, v.6.

Kipping, Frederic Stanley, & Perkin, W. H. 546 K27

Inorganic chemistry. 2v. 1911. Lippincott.

Pt.1 contains material considered suitable and sufficient for the first year's work; pt.2 is a direct continuation of the same work and contains material for the second and third years.

Mellor, Joseph William. 546 M59

Modern inorganic chemistry. 1912. Longmans.

Comprehensive work, well arranged and well written. Valuable text-book for advanced students.

Molinari, Ettore. q 546 M79

Treatise on general and industrial inorganic chemistry; third revised and amplified Italian edition, tr. by Ernest Feilmann. 1912. Churchill.

Contents: General.—Non-metals.—Metals.

The same.....qr 546 M79

Comprehensive in scope, covering in one volume the whole field of inorganic chemistry, historical, physical, descriptive and industrial. Gives a generally accurate survey in condensed form.

Newell, Lyman Churchill. r 546 N27

Course in inorganic chemistry for colleges. 1909. Heath.

Good text-book for first-year college work. Clear and concise in statement.

Ostwald, Wilhelm. r 546 O29a

Grundlinien der anorganischen chemie. Ed.3. 1912.

Presents inorganic chemistry in the light of the results achieved in the field of physical chemistry.

Segerblom, Wilhelm. r 546 S45

Tables of properties of over 1,500 common inorganic substances. 1909. Exeter Book Pub. Co.

"Principal properties of such substances as may reasonably be looked for in a course in qualitative analysis...Only the metals of the six groups usually studied are included, together with their oxides, hydroxides and more common salts. To increase the value of the book for general reference, tables are added covering the acids, non-metals, and rare metals." *Preface*.

Dictionaries

Hoffmann, Max Konrad. qr 546.03 H68

Lexikon der anorganischen verbindungen, unter berücksichtigung von additionsverbindungen mit organischen komponenten. v.1, pt.1-11; v.2-v.3, pt.1. 1910-15.

Title and introduction in German, English, French and Italian.

Non-metallic elements

Crossley, Arthur William. r 546.11 C89

Preparation and commercial uses of hydrogen. [1914. St. Clements Press.]

"Pharmaceutical journal" reprint.

Hönigschmid, Otto. r 546.25 H76

Karbide und silizide. 1914. (Monographien über angewandte elektrochemie.)

Treats the carbides and silicides from the scientific and chemical side and not at all from the industrial point of view. Includes methods for preparation on laboratory scale.

Marshall, Albert E. & Winship, W. W. comp. r 016.54628 M41

Bibliography of fused silica. 1915. Thermal Syndicate.

Metals. Rare earths

Böhm, C. Richard. r 546.3 B59v

Die verwendung der seltenen erden; eine kritische übersicht. 1913.

Discusses scientific, technical and industrial applications.

Cahen, Edward, & Wootton, W. O. 546.3 C12

Mineralogy of the rarer metals; a handbook for prospectors, with a foreword by F. W. Harbord. 1912. Griffin.

"Valuable addition to the technical library, for it fills a distinct want. Other books on the same subject have been either incomplete and unreliable, or too strictly mineralogical." *Mining magazine*, 1912.

Adopts Dana's classification. Describes minerals and gives simple methods of testing.

Ibbotson, Fred, & Aitchison, Leslie. 546.3 I12

Analysis of non-ferrous alloys. 1915. Longmans.

An assemblage of methods which in the opinion of the authors combine accuracy and speed in the highest possible degree. A valuable work, bringing together much of the widely scattered literature on an important subject.

Johnstone, Sydney James. q 546.3 J37

Rare earth industry, including the manufacture of incandescent mantles, pyrophoric alloys and electrical glow lamps. 1915. Lockwood. (Manuals of chemical technology.)

Contains also a chapter on "The industry of radioactive substances," by A. S. Russell.

"Literature" at the beginning of each chapter.

Concise work, presupposing a knowledge of the chemistry of the subject, and dealing directly with practical technology. Considerable attention to bibliography.

- Levy, S. I.** 546.3 L66
Rare earths; their occurrence, chemistry and technology. 1915.
Arnold.
Contains bibliographical foot-notes.
Considerable attention to technical applications. Among the subjects treated are uses of monazite sands, and the incandescent mantle industry, including manufacture of artificial silk.
- Mennicke, Hans.** r 546.3 M62
Die quantitativen untersuchungsmethoden des molybdäns, vana-
diums und wolframs sowie deren erze, stähle, legierungen und ver-
bindungen; praktisches handbuch. 1913.
Gives many special methods.
- Price, William Benham, & Meade, R. K.** 546.3 P94
Technical analysis of brass and the non-ferrous alloys. 1911. Wiley.
Has a brief chapter on composition and properties of engineering alloys, and dis-
cusses apparatus and methods for chemical and electrochemical analysis.
- Schmidt, Eduard Oskar.** 546.3 S34
Metalle (Anorganische chemie, 2. teil). 1914.
"Literatur," p.4.
- Bolton, Henry Carrington, comp.** r 016.54671 B61
Index to the literature of manganese, 1596-1874. 1876. Salem Press.
Reprinted from the "Annals of the Lyceum of Natural History," v.11, Nov. 1875.
- Leiser, Heinrich.** r 546.78 L56
Wolfram; eine monographie, mit einem anhang Die patentansprüche
über wolfram-glühkörper. 1910.
Treats of recovery of tungsten from its ores, its chemical and physical properties
and its technical use in metallic filament lamp industry and in steel and other alloys.
Gives frequent references to original papers and to patents.
- Bolton, Henry Carrington, comp.** r 016.54679 B61
Index to the literature of uranium. [1870.]
Reprinted from the "Annals of the Lyceum of Natural History," v.9, Feb. 1870.
- White, Edmund.** r 546.84 W63
Lecture on thorium and its compounds. 1912. Institute of Chem-
istry of Great Britain and Ireland.
Deals briefly with occurrence, methods of extraction, testing and properties.
- Carne, Joseph Edmund.** r 559.44 N26 v.6
The antimony-mining industry and the distribution of antimony ores
in New South Wales. 1912. (In New South Wales—Geological sur-
vey. Mineral resources, v.6, no.16.)

547 Organic chemistry

- Barger, George.** 547 B23
Simpler natural bases. 1914. Longmans. (Monographs on bio-
chemistry.)
"Bibliography," p.167-211.
Discusses chemical and physiological characteristics of a number of important bases
found in either plants or animals or in both. As considered here author defines a base
as "a substance which is precipitated by phosphotungstic acid."

Bernthsen, August.

547 B45

Text-book of organic chemistry; the English translation from the German, ed. and rev. by J. J. Sudborough. [Enl. ed.] 1912. Van Nostrand.

"One of the best, if not the best, text-books...for advanced students in the English language." *Nature*, 1907.

Blücher, H.

r 547 B56

Organische chemie. Enl. ed. [1906.] (Miniatur-bibliothek.)

Elementary book, giving a brief description of the compounds of organic chemistry.

Cohen, Julius Berend.

547 C66

Organic chemistry for advanced students. 2v. 1909-13. Arnold.

"References" at the end of each chapter.

Departs from the conventional text-book arrangement and is really a collection of excellent, though to some extent detached monographs not dealing uniformly with all parts of the subject. Based on lectures to advanced students and presupposes a knowledge of elementary organic chemistry.

Fischer, Emil.

547 F52

Introduction to the preparation of organic compounds; tr. from the (8th) German edition by R. V. Stanford. 1909. Williams.

"Precautions necessary for the avoidance of accidents," p.11-16.

Brief directions for the preparation of 90 organic compounds.

Kempf, Richard.

r 547 K17

Tabelle der wichtigsten organischen verbindungen geordnet nach schmelzpunkten. 1913.

Lassar-Cohn, Dr.

r 547 L34

Arbeitsmethoden für organisch-chemische laboratorien. Ed.4, rev.

& enl. 2v. 1906-07.

v.1. Allgemeiner teil.

v.2. Spezieller teil.

Meyer, Victor, & Jacobson, P. H.

r 547 M65

Lehrbuch der organischen chemie. Ed.2. v.2, pt.3. 1915.

v.2, pt.3, no.1. Cyclische verbindungen, naturstoffe; Heterocyclische verbindungen, bearbeitet von P. Jacobson.

For v.1; v.2, pt.1-2, see preceding catalogue, v.6.

Molinari, Ettore.

q 547 M79

Treatise on general and industrial organic chemistry; tr. from the second enlarged and revised Italian edition by T. H. Pope. 1913. Blakiston.

Contents: General.—Derivatives of methane.—Cyclic compounds.

The same.....qr 547 M79

Comprehensive work. Differs from Bernthsen's "Text-book of organic chemistry" in paying less attention to theoretical and systematic exposition and more to industrial applications.

Norris, James Flack.

547 N45

Principles of organic chemistry. 1912. McGraw. (International chemical series.)

Good elementary text-book.

"An attempt...to emphasize the fundamental principles of the science, and to describe in some detail the organic compounds of practical importance." *Preface*.

Perkin, William Henry, b. 1860, & Kipping, F. S.

547 P43

Organic chemistry. [Rev. & enl. ed.] 2v. in 1. 1911. Chambers.

Richter, Victor von.

r 547 R42a

Organic chemistry; tr. and rev. from the German edition (after E. F. Smith's third American edition) by P. E. Spielmann. v.1. 1916.
v.1. Chemistry of the aliphatic series.

Deutsche Chemische Gesellschaft zu Berlin.

qr 547.05 D48

Literatur-register der organischen chemie, geordnet nach M. M. Richters formelsystem, umfassend die literaturjahre 1910-11. v.1. 1913.

Cyanamid

Pranke, Edward John.

547.16 P88

Cyanamid; manufacture, chemistry and uses. 1913. Chemical Pub. Co.

Considers discovery, chemistry preparation, properties, and nature and value as a fertilizer.

Sugar

Mackenzie, John Edwin.

547.66 M18

The sugars and their simple derivatives. 1914. Lippincott.

Discusses chemistry of the various sugars. Gives brief attention to sugar manufacture and to fermentation and metabolism.

Alkaloids

Henry, Thomas Anderson.

547.78 H45

The plant alkaloids. 1913. Blakiston.

Fairly comprehensive compilation of literature on the medicinally important alkaloids, with particular attention to their chemical constitutions and reactions.

"First original and comprehensive treatise in English on this subject." *Journal of the American Chemical Society*, 1913.

Proteins

Osborne, Thomas Burr.

547.786 O29

Vegetable proteins. 1912. Longmans. (Monographs on biochemistry.)

"Bibliography," p.101-121.

"The term 'protein'...is now adopted...as the generic term for the whole class of complex nitrogenous substances occurring in animal and vegetable structures and typified by albumin and gelatin. The present work is confined to the proteins of the vegetable kingdom, and...the aim has been to give a general survey of the physical and chemical properties of the class rather than to deal minutely with those of individual compounds...Both as a practical handbook and as a reference index, the monograph will be of the greatest use to the worker in biochemistry." *Knowledge*, 1909.

Plimmer, Robert Henry Aders.

547.786 P69

Chemical constitution of the proteins. Ed.2. 2 pts. in 2v. 1912-13. Longmans. (Monographs on biochemistry.)

v.1. Analysis.

v.2. Synthesis, etc.

"Bibliography," v.1, p.150-182, v.2, p.91-104.

Notable for the completeness and accuracy with which it reviews the progress in the chemistry of proteins, with critical evaluation of the contributions to its literature. Clear and readable.

Schryver, Samuel Barnett.

547.786 S38

General characters of the proteins. 1909. Longmans. (Monographs on biochemistry.)

"Bibliography," p.78-84.

"An attempt is made to review the chief properties of the proteins, with the object of determining how far they are of value for devising methods of isolation and identification of individual members of the class." *Preface.*

Jones, Walter.

547.78613 J41

Nucleic acids; their chemical properties and physiological conduct. 1914. Longmans. (Monographs on biochemistry.)

"Bibliography," p.99-115.

Treats of the chemistry of the nucleic acids, and of the physiological forces which cause their progressive decomposition in the body.

Agricultural chemistry

Czapek, Friedrich.

qr 547.89 C99

Biochemie der pflanzen. Ed.2, rewritten. v.1. 1913.

Bibliographical foot-notes.

Compilation for reference. Though much of the recent work in plant study has been in this field, we have not heretofore had a comprehensive reference work. Summarizes an enormous amount of material, giving references to the original literature.

Haas, Paul, & Hill, T. G.

547.89 H11

Introduction to the chemistry of plant products. 1913. Longmans.

Contents: Fats, oils and waxes.—Phosphatides.—Carbohydrates.—Glucosides.—Tannins.—Pigments.—Nitrogen bases.—Colloids.—Proteins.—Enzymes.
Contains bibliographies.

Systematic course in chemistry and biological significance of the more important plant substances. Brief attention to economic aspects. For readers with some knowledge of chemistry.

Johnston, James Finlay Weir, & Cameron, Sir C. A.

r 547.89 J36

Elements of agricultural chemistry and geology. Ed.14. 1886. Blackwood.

Snyder, Harry.

547.89 S67

Chemistry of plant and animal life. Ed.3, rev. 1913. Macmillan.

Good elementary work on agricultural chemistry and the chemistry of foods. Assumes little knowledge of chemistry.

Physiological chemistry

Abderhalden, Emil.

547.9 A13

Text-book of physiological chemistry in 30 lectures; tr. by W. T.

Hall and George Defren. 1911. Wiley.

Bibliographical foot-notes.

Clear and comprehensive exposition of principles.

Cramer, William.

547.9 C86

Directions for a practical course in chemical physiology. 1912. Longmans.

"Subject matter is practically limited to experiments and deductions from the experiments, and is not meant to supply the full and ordered information obtainable from a text-book of physiological chemistry." *Preface.*

- Dakin, Henry Drysdale.** 547.9 D15
Oxidations and reductions in the animal body. 1912. Longmans.
(Monographs on biochemistry.)
"Bibliography," p.111-132.
Discussion of principal chemical reactions which involve oxidation. Considered from the point of view of the structure of the substance undergoing change.
- Plimmer, Robert Henry Aders.** q 547.9 P69
Practical organic and bio-chemistry. 1915. Longmans. (Monographs on bio-chemistry.)
Revision and extension of his "Practical physiological chemistry."
Concise systematic treatise, of value to the advanced worker as well as to the student. Laboratory practice outlined briefly.
- Vaughan, Victor Clarence.** r 547.9 V23
Lecture notes on chemical physiology and pathology. Ed.2, rev. & enl. 1879. Ann Arbor Printing & Pub. Co.
Binder's title reads "Vaughan's chemical physiology and pathology."
- Hale, Arthur James.** 547.92 H15
Synthetic use of metals in organic chemistry. 1914. Churchill.
Reprint of lectures, discussing application of metals and metallic derivatives.

548 Crystallography

- Accum, Friedrich Christian.** r 548 A17
Elements of crystallography after the method of Haüy, with or without series of geometrical models both solid and dissected, exhibiting the forms of crystals, their geometrical structure, dissections and general laws. 1813. Longman.
- Bravais, Auguste.** qr 548 B71
Études cristallographiques. 1866.
- Brooke, Henry James.** r 548 B77
Familiar introduction to crystallography, including an explanation of the principle and use of the goniometer. 1823. Phillips.
- Germar, Ernst Friedrich.** r 548 G32
Grundriss der krystallkunde. 1830.
- Goldschmidt, Victor.** qr 548 G58
Index der krystallformen der mineralien. 3v. 1886-91.
"Literatur," v.1, p.150-153.
- Hinrichs, Gustavus Detlef.** r 548.7 L53
Principles of pure crystallography; a lecture-guide. 1871. Griggs.
Bound with "On crystallography," by H. B. Leeson.
- Hochstetter, Ferdinand von, & Bisching, Anton.** r 548 H65
Leitfaden der beschreibenden krystallographie, zum gebrauch bei dem studium der mineralogie. 1868.
- Jordan, James B.** r 548 J42
Elementary crystallography, with which is given a series of nets for the construction of models illustrative of the simple crystalline forms. Rev. ed. 1873. Murby.

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Contents: Allgemeine anorganographie: Morphologie der krystalle (krystallographie); Krystallophysik; Krystallochemie.—Specielle anorganographie, system.
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Allgemeine krystallbeschreibung auf grund einer vereinfachten
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krystallnetze und krystallmodelle. 1895.
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Grundriss der mathematischen verhältnisse der krystalle. 1853.
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Krystallsysteme und krystallstructur. 1891.
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- Kupffer, Adolf Theodor von.** qr 548.7 K43
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Die neue welt der flüssigen kristalle und deren bedeutung für physik, chemie, technik und biologie. 1911.
"The book...is interesting. More than this one cannot say. The author deals in many cases with matters involving the principles of physical chemistry, but he does not apply these principles as others do...He is continually trying to impress people with the extraordinary and mysterious nature of the liquid crystals. The book gains in interest by this treatment, but loses in value. All that is necessary...is to say that in flowing crystals the surface tension is strong enough to round off the corners, while in liquid crystals the surface tension is sufficiently strong to produce a sphere. No further assumption is necessary in order to explain all the experimental data." *Wilder D. Bancroft, in Journal of physical chemistry, 1911.*
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Valuable reference work on the equilibrium between the solid and fused conditions of a substance. Records author's work during seven years.

549 Mineralogy

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Minerals and rocks; the elements of mineralogy and lithology for the use of students in general geology. 1915. Appleton.
Text-book of descriptive mineralogy, with brief synopsis of rock classification, keys to determination of minerals and rocks, and a chapter on blowpipe analysis.

- Bekkerhinn, Karl, & Kramp, Christian.** r 549 B39
 Kristallographie des mineralreichs. 1793.
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 Lehrbuch der oryktognosie. 1833. (Naturgeschichte der drei reiche, v.2.)
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- Blumhof, Johann Georg Ludolph, ed.** r 549 B569
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- Brauns, Reinhard.** qr 549 B71m
 Mineral kingdom; tr. with additions by L. J. Spencer. 1912. Schreiber.
 Greatest value is in the many excellent plates showing natural color and luster of all the more important minerals. Text is accurate, but not highly technical. Discusses appearance and character of the various minerals, with considerable attention to economic mineralogy.
- Butler, Gurdon Montague.** 549 B97
 Pocket handbook of minerals, designed for use in the field or classroom, with little reference to chemical tests. Ed.2. 1912. Wiley.
 Manual for the recognition of minerals by practicable field tests.
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 Outlines of mineralogy, for geological students. 1913. Longmans.
 Gives particular attention to the crystallographic side. Minerals are classified according to chemical composition and briefly but satisfactorily described.
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 Manual of mineralogy; entirely rev. and rewritten by W. E. Ford. Ed.13, rev. 1912. Wiley.
The same. Ed.12. 1909.....r 549 D19m
 Title reads "Manual of mineralogy and petrography."
 Clear and concise. For elementary students and practical men. First published in 1848, and has passed through many editions, but with no revision since 1887. The edition of 1912 is entirely rewritten but follows closely the lines of its predecessors.
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 System of mineralogy, with appendices one and two, completing the work to 1909. Ed.6, rewritten & enl. 1914.
 "Bibliography," p.45-61.
 —Second appendix to the 6th edition, by E. S. Dana and W. E. Ford, completing the work to 1909. 1909.....q 549 D19s4
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 Traité de minéralogie. Ed.2, rev. & enl. v.1-4. 1856-59.

- Gratacap, Louis Pope.** 549 G79
 Popular guide to minerals, with chapters on the Bement collection of minerals in the American Museum of Natural History and the Development of mineralogy, for use of visitors to public cabinets of minerals and for elementary teaching in mineralogy. 1912. Van Nostrand.
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- Klockmann, Friedrich Ferdinand.** r 549 K32
 Lehrbuch der mineralogie. Ed.3, enl. 1903.
- Kurr, Johann Gottlob von.** r 549 K43
 Grundzüge der ökonomisch-technischen mineralogie; ein lehr- und handbuch. Ed.2. 1844.
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 Mineralogisches handbuch durch weitere ausführung des Wernerschen systems. Ed.2, enl. 1796.
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- Mohs, Friedrich.** r 549 M77
 Leichtfassliche anfangsgründe der naturgeschichte des mineralreichs, zum gebrauch bei seinen vorlesungen über die mineralogie. Ed.2, enl. 2v. 1836-39.
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 v.2. Physiographie; bearbeitet von F. X. M. Zippe.
 Author had a prominent part in the development of the science of mineralogy. His system of classification is based on the external characteristics of minerals.
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 Elemente der mineralogie. Ed.8, enl. 1871.
- Quenstedt, Friedrich August von.** r 549 Q25
 Handbuch der mineralogie. Ed.2. 1863.
- Rogers, Austin Flint.** 549 R61
 Introduction to the study of minerals; a combined text-book and pocket manual. 1912. McGraw.
 "Select bibliography," p.17-20.
 Gives prominence to economic features and practical methods of identification. Considers about 200 minerals.
- Spencer, Leonard James.** 549 S74
 The world's minerals. 1911. Stokes.
 Popular descriptive work. Includes 116 species of the more common simple minerals, illustrated by 163 figures in color. Treats of occurrence, distinguishing characteristics, chemical and physical properties, and economic importance.
- Steffens, Henrik.** r 549 S81
 Vollständiges handbuch der oryktognosie [and supplements]. 4v. 1811-24.
- Tschermak, Gustav.** r 549 T78
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Moore, Nathaniel Fish. r 549.09 M87

Ancient mineralogy; or, An inquiry respecting mineral substances mentioned by the ancients, with occasional remarks on the uses to which they were applied. Ed.2. 1859. Harper.

The same. 1834. Carvill. r 549.09 M87a

Determinative mineralogy

Crosby, William Otis. r 549.1 C89

Tables for the determination of common minerals chiefly by their physical properties, with confirmatory chemical tests. Ed.4, rewritten & enl. 1903. Privately printed.

Silicates

Asch, W. & Asch, D. 549.63 A81

The silicates in chemistry and commerce, including the exposition of a hexite and pentite theory and of a stereo-chemical theory of general application; tr. with critical notes and some additions by A. B. Searle. 1913. Constable.

"Bibliography of references mentioned in text," p.328-339; "Bibliography of references mentioned in appendix," p.437-444.

Very slight attention to industrial applications. Purely scientific in character, offering a theory of molecular structure for silicates similar to the stereochemical theory of carbon compounds based on Kekulé's explanation of the benzene molecule. The authors' theory has been criticized by other investigators.

Le Chatelier, Henri. qr 549.63 L48

La silice et les silicates. 1914.

Exhaustive work, very clearly written. On a subject which hitherto has not received the attention its importance merits. Deals with chemical and physical properties of silica and of glass. Discusses ceramics in general and the metallic silicates.

Geographical distribution

Heddle, Matthew Forster. qr 549.941 H39

Mineralogy of Scotland; ed. by J. G. Goodchild. 2v. 1901. Douglas.

"Memoir of Dr Heddle," by Alexander Thoms, v.1, pref. p.11-13.

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Chamberlin, Thomas Chrowder, & Salisbury, R. D. 550 C35i

Introductory geology; a text-book for colleges. 1914. Holt. (American science series; advanced course.)

Briefer and simpler than "College text-book of geology." Excellent for beginners.

Cole, Grenville Arthur James. 550 C68c

The changeful earth; an introduction to the record of the rocks. 1911. Macmillan. (Readable books in natural knowledge.)

Contents: Man and the earth's surface.—Sea-shells in the mountains.—William Smith and the English midlands.—Shell-beds in the Paris basin.—Running water.—Scratches on the rocks.—The throat of a volcano.—The story of the Giant's Causeway.—The making of mountains.—A year of earth-storm.

"Written in a simple and charming style, and makes its appeal as literature quite as much as by its interesting subject matter. As an introduction to geology for nature students it will be found invaluable." *Knowledge*, 1912.

Emmons, Ebenezer. r 550 E59

Manual of geology; designed for the use of colleges and academies. Ed.2. 1863. Barnes.

Farrell, John Herbert. 550 F25

Practical field geology. 1912. McGraw.

Contains also "A guide to the sight recognition of 120 common or important minerals," by A. J. Moses.

Excellent manual of practical field methods in economic work.

Gregory, John Walter. 550 G86

Geology of to-day; a popular introduction in simple language. 1915. Lippincott.

Very readable sketch of contemporary geological knowledge. Clear summary of established facts, with little attention to debatable problems.

Hitchcock, Edward, 1793-1864, & Hitchcock, C. H. r 550 H62

Elementary geology; for use in schools, families and by individuals. Rev. & enl. ed. 1864. Ivison. (American educational series.)

Hobbs, William Herbert. 550 H64

Earth features and their meaning; an introduction to geology for the student and the general reader. 1912. Macmillan.

"Reading references" at the end of many of the chapters.

Discusses the important features of physical geography as related to the working of geological processes. A cultural study suitable for general reading.

Leonhard, Karl Cäsar, ritter von. r 550 L62

Geologie; oder, Naturgeschichte der erde, auf allgemein fassliche weise abgehandelt. 5v. 1836-44. (Populäre vorlesungen über geologie.)

Lyell, Sir Charles. r 550 L98e

Elements of geology. 1839. Kay.

First published in 1838.

"From being originally an expansion of one section of his *Principles*, became a standard work on stratigraphical and palaeontological geology...Went through six editions in Lyell's life time (some intermediate editions being styled *Manual of Elementary Geology*), and in 1871 a smaller work, the *Student's Elements of Lyell* was based upon it." *Encyclopædia Britannica*, 1910-11.

Park, James. 550 P23

Text-book of geology, for use in mining schools, colleges and secondary schools. 1914. Griffin.

"Bibliography," p.555-558.

Thorough, systematic course in general geology, with brief attention to economic geology. Author is (1914) professor of mining in University of Otago, New Zealand, and many of his illustrations and examples are from the southern hemisphere.

Pirsson, Louis Valentine. 550 P65

Text-book of geology, for use in universities, colleges, schools of science, etc. and for the general reader. 1915. Wiley.

Contents: Physical geology, by L. V. Pirsson.—Historical geology, by Charles Schuchert.

Extended treatment, particularly with respect to historical geology.

Ries, Heinrich, & Watson, T. L. 550 R44

Engineering geology. 1914. Wiley.

"References" at the end of each chapter.

Text-book in a new field, presenting such features of structural and economic geology as find application in civil engineering. Considers rock formation, weathering and soils, surface and ground waters, wave action, landslides, glacial deposits, building and road materials, fuels and ore deposits.

Steele, Joel Dorman. 550 S81

Story of the rocks; 14 weeks in popular geology. 1877. Amer. Book Co. (Fourteen weeks in all the sciences.)

The same. 1871. Barnes.....r 550 S81

Ure, Andrew. r 550 U27

Neues system der geologie; aus dem englischen übersetzt. 1830.

Vogt, Karl. r 550 V36

Lehrbuch der geologie und petrefactenkunde, zum gebrauch bei vorlesungen und zum selbstunterrichte. Ed.2, rev. & enl. 2v. 1854.

Weg, Max, pub. r 016.55 W43

Regionale geologie. 6 pts. in iv. 1905-12.

Classified second-hand catalogue. Contains over 17,000 entries, covering geological literature of North and South America and much of the continent of Europe.

Essays

Burroughs, John. 550.4 B94

Time and change. 1912. Houghton.

Contents: The long road.—The divine abyss.—The spell of the Yosemite.—Through the eyes of the geologist.—Holidays in Hawaii.—The old ice flood.—The friendly soil.—Primal energies.—Scientific faith.—"The worm striving to be man."—The phantoms behind us.—The hazards of the past.—The gospel of nature.

Wadsworth, Marshman Edward. r 550.4 W12

[Geological papers; a collection of pamphlets.] 1879-98.

With these pamphlets is bound "The Azoic system" by J. D. Whitney and M. E. Wadsworth.

Author is widely known both for the nature and extent of his scientific work and for his contributions to technical education.

Winchell, Alexander. r 550.4 W77

Sparks from a geologist's hammer. Ed.2. 1882. Griggs.

Contents: Æsthetic: Mont Blanc and the Mer de Glace; Ascent of Mont Blanc; The beautiful.—Chronological: The old age of continents; Obliterated continents; A grasp of geologic time.—Climate: Geological seasons; The climate of the lake region; Mammoths and mastodons.—Historical: Salt enterprise in Michigan; A remarkable Maori manuscript.—Philosophical: The genealogy of ships; Huxley and evolution; Grounds and consequences of evolution; The metaphysics of science.

Periodicals. Societies

r 550.5 G29

Geological magazine; or, Monthly journal of geology, 1911-date.
decade 5, v.8-10; decade 6, v.1-date. 1911-date.

qr 550.5 G299

Geologisches zentralblatt; anzeiger für geologie, petrographie, palaeontologie und verwandte wissenschaften; hrsg. von K. Keilhack; index, v.1-15, 1901-March 1911.

For volumes of magazine see preceding catalogue, v.1.

International Geological Congress (12th), Toronto, 1913. qr 550.6 I2485
Compte-rendu de la 12e session, Canada, 1913. 1914.

History

Woodward, Horace Bolingbroke.

550.9 W86

History of geology. 1911. Watts. (History of science series.)

"Bibliography," p.149-150.

Issued for the Rationalist Press Association, Limited.

"Thoroughly readable and useful little book, which supplies an undoubted want in the literature of geology." *Knowledge*, 1911.

551 Physical geography

Agricola, Georg.

r 551 A27

Georgii Agricolæ De ortu & causis subterraneorum, lib. 5; De natura eorum quæ effluunt ex terra, lib. 4; De natura fossilium, lib. 10; De veteribus & novis metallis, lib. 2; Bermannus; sive, De re metallica dialogus; Interpretatio germanica vocum rei metallicæ; addito indice fecundissimo; in certa capita distributi, capitum argumentis & nonnullis scholiis marginalibus illustrati a Joanne Sigfrido; accesserunt de metallicis rebus & nominibus observationes variæ & eruditæ ex schedis Georgii Fabricii. 1612.

These works are less widely known than the author's "De re metallica," but some of them are fully as important from a scientific standpoint. "De ortu et causis" is the oldest existing work on physical geology. "De natura eorum quæ effluunt ex terra" deals with underground waters and gases. "De natura fossilium" is the first systematic mineralogy. "De veteribus et novis metallis" is concerned mainly with history of metals and topographical mineralogy. "Bermannus" discusses mineralogy, metals, mining terms and mining lore. It is attributed to Lorenz Berman a "learned miner" and was first published in 1530. The "Interpretatio" is a list of German equivalents for about 500 Latin mineralogical and metallurgical terms, many of which were coined by Agricola.

For an authentic review of Agricola's writings see Appendix A to Hoover's translation of "De re metallica," 1912 (qr 669 A27g).

Arey, Albert Llewellyn, and others.

551 A68

Physiography for high schools. 1911. Heath.

The same.....j 551 A68

Brief, but laid out on broad lines, touching on the important facts of astronomy, geology and meteorology, with special attention to the needs of those students whose education will end with the high school.

Gregory, John Walter.

551 G86

Making of the earth. 1912. Holt. (Home university library of modern knowledge.)

"Bibliography," p.251-254.

Popular exposition of the earth's origin, movements and divisions, and the beginnings of life.

"As a simple introduction to the study of geology or geography, it deserves to occupy a popular position." *Athenæum*, 1912.

Holmes, Arthur, *geologist*. 551 H73

Age of the earth. 1913. Harper. (Harper's library of living thought.)

"Bibliography," p.184-189.

Reviews the various methods which have been applied in determining the age of the earth, and discusses radioactivity, and astronomical and geological evidence as factors in this determination.

La Métherie, Jean Claude de. r 551 L18

Théorie de la terre. 3v. 1795.

Page, David. r 551 P14

Advanced text-book of physical geography. 1864. Blackwood.

Somerville, Mrs Mary (Fairfax). r 551 S69a

Physical geography, with notes and a glossary by W. S. W. Ruschenberger. [Rev. & enl. ed.] 1854. Blanchard.

Tarr, Ralph Stockman. 551 T21c

College physiography; published under the editorial direction of Lawrence Martin. 1914. Macmillan.

"References to literature," p.19-22, and at the end of each chapter.

"Compendious enough to serve as a reference book, and readable enough to appeal to the general reader interested in the scientific description of the visible features of the world." *Mining and scientific press*, 1914.

Warren, Erasmus. r 551 W24

Geologia; or, A discourse concerning the earth before the deluge, wherein the form and properties ascribed to it in a book [by Thomas Burnet], intituled The theory of the earth, are excepted against and it is made appear that the dissolution of that earth was not the cause of the universal flood, also a new explication of that flood is attempted. 1690. Chiswell.

Earthquakes. Volcanoes

Iddings, Joseph Paxson. 551.21 I14

Problem of volcanism. 1914. Yale University Press. (Yale University. Silliman memorial lectures.)

"Bibliography," p.265.

Important work giving a full account of research on the subject.

"After a full discussion of the astronomical, physical, chemical and geological evidence involved, the author shows that there are no valid grounds against the conclusion that the earth's interior is solid and cold; and that all thermal action may be attributed to radioactivity." *Nature*, 1915.

Davison, Charles. 551.22 D320

Origin of earthquakes. 1912. Cambridge University Press. (Cambridge manuals of science and literature.)

"References," p.139-141.

Brief popular guide.

Walker, George Walker. 551.22 W16

Modern seismology. 1913. Longmans. (Monographs on physics.)

"Written from the point of view of seismology as a branch of physics, and particularly as it is determined by observatory conditions." *Introduction*.

Glaciers. Erosion

See also Stratigraphical geology, 551.7

Alden, William Clinton.**r 551.31 A35**

Glaciers of Glacier national park. 1914.

Issued by the United States department of the interior.

qr 551.31 A88**Atlas photographique des formes du relief terrestre; publié sous les auspices d'une commission internationale par Jean Brunhes [and others].** v.1, pt.1-2. 1914.

Title and text in English, French, German and Italian.

English title reads "Album of landforms."

Hobbs, William Herbert.**551.31 H64**

Characteristics of existing glaciers. 1911. Macmillan.

"References" at the end of each chapter.

"Excellent reference work to modern views of glaciation." *Knowledge*, 1911.

The material for this book appeared in 1910 as papers in British, German and American journals.

Wright, William Bourke.**551.31 W93**

The quaternary ice age. 1914. Macmillan.

Valuable general summary of the literature of glacial geology. Colored to some extent by the author's personal reasoning and speculation. Discusses glaciation of the Alps, of Europe generally and of North America.

"Title implies a recognition, so often lacked by geologists, of previous and probably very similar ice-ages which also affected the whole globe." *Science progress*, 1914.**Cornish, Vaughan.****551.3113 C82**

Waves of sand and snow and the eddies which make them. [1914.]

Unwin.

"Catalogue of original papers by the author on the surface waves of the atmosphere, hydrosphere and lithosphere," p.373-377.

Interesting book, with some remarkable illustrations. Author has made a careful study of the phenomena of wave formation. His earlier researches related to waves in water and the present book deals at length with waves in snow, and in sand, whether formed by wind or water. Discusses nature of quicksand and the rippled cloud formation popularly known as "mackerel sky."

Dunn, Edward John.**551.3511 D92**

Pebbles. 1911. Robertson.

Describes and illustrates many varieties of pebbles, and discusses their form, material, shaping and transport.

Surface features of the earth

Bowman, Isaiah.**551.4 B66**

Forest physiography, physiography of the United States and principles of soils in relation to forestry. 1911. Wiley.

Clear and rather comprehensive guide to the topography, drainage, soils and climatic features of the country.

Reclus, Élisée.**r 551.4 R26**

Les phénomènes terrestres; les continents. 1870.

Abridgment of author's "La terre."

United States—Geological survey.**qr 016.5514 U25**

Selected list of 100 topographic maps illustrating physiographic types. 1915.

Mountains

Geikie, James. 551.43 G28

Mountains; their origin, growth and decay. 1913. Oliver.

Interesting and well illustrated account of mountain structure and origin. For readers with little knowledge of geology.

Van Dyke, John Charles. 551.43 V18

The mountain; renewed studies in impressions and appearances. 1916. Scribner.

The ocean

Buchanan, John Young. 551.46 B84

Scientific papers. v.1. 1913. Cambridge University Press.

"The papers in this volume [v.1] are oceanographical and deal with a portion of the work which I did as Chemist and Physicist of the Challenger Expedition, as well as some later work, especially that done in *S. S. Buccaneer*." *Preface*.

Murray, Sir John, 1841-1914. 551.46 M97

The ocean; a general account of the science of the sea. [1913.] Holt. (Home university library of modern knowledge.)

"Bibliography," p.250-252.

Admirable summary. Tells in an interesting manner of the methods and results of deep sea investigation, properties and movements of the waters, and animal and vegetable forms of marine life.

Water

Arkansas—Geological survey. (Purdue survey.) r 551.48 A72

Water powers of Arkansas; a preliminary report on White river and some of its tributaries, by W. N. Gladson. 1911.

MacDougall, Daniel Trembly, and others. qr 551.48 M14

The Salton sea [Cal.]; a study of the geography, the geology, the floristics and the ecology of a desert basin. 1914. (Carnegie Institution of Washington. Publication no.193.)

Montana—State engineer. r 551.48 M84

Biennial report (5th-6th) of the state engineer and of the Carey land act board, 1911-14.

United States—War department. qr 551.48 U25p

Preservation of Niagara falls; message from the president transmitting additional information concerning the operation of the United States lake survey from June 29, 1906 to June 29, 1911. 1911. (62d cong. 2d sess. House. Doc. no.246, v.29.)

United States—War department. qr 551.48 U25

Preservation of Niagara falls; message from the president transmitting information relative to scientific investigations made by certain officers of the War department for the preservation of Niagara falls. 1911. (62d cong. 1st sess. Senate. Doc. no.105, v.17.)

Fuller, Myron Leslie. 551.491 F98

Underground waters for farm use. 1910. (United States—Geological survey. Water-supply paper no.255.)

The same. (In United States—Geological survey. Water-supply paper no.255.).....r 631.8 U2533 no.255

Rector, Frank Leslie. 551.491 R26

Underground waters for commercial purposes. 1913. Wiley.

"Bibliography," p.93-94.

"The subject of underground waters for commercial purposes has received meagre attention...and it is the author's intention...to discuss in more or less detail this phase of the question." *Introduction.*

Has short chapter on mineral waters.

Meteorology

Bibliography

Talman, Charles Fitzhugh, comp. r 016.5515 T16a

Brief list of meteorological textbooks and reference books; a selection of works suitable for general, scientific and university libraries in the United States. 1913. (United States—Weather bureau.)

General works

Brocklesby, John: r 551.5 B76

Elements of meteorology, with questions for examination; designed for schools and academies. Ed.10, rev. & enl. 1857. Pratt.

Henkel, F. W. 551.5 H44

Weather science; an elementary introduction to meteorology. 1911. Unwin.

"Will serve as an interesting guide to the amateur weather-prophet. The approximate functions of the temperature, atmospheric pressure, wind velocity, rainfall, etc., and also their measurement, are carefully described...Unfortunately omits mention of the most recent types of recording instruments...The apparatus required is little beyond efficient eyes and ears." *Academy*, 1911.

Milham, Willis Isbister. 551.5 M68

Meteorology; a text-book on the weather, the causes of its changes and weather forecasting, for the student and general reader. 1912. Macmillan.

"The literature of meteorology," p.518-541.

"Excellent text on meteorology and a good reference book. The author has combined very happily a scientific and a popular treatment of the subject, making a text that is, at the same time, accurate and very readable." *Popular astronomy*, 1912.

Philippine islands—Weather bureau. qr 551.5 P49an

Annual report of the director, 1903-13, 1914, pt.3, 1915. 1905-16.

Administrative reports for 1901-1906/07 will be found in Annual reports of the United States war department, 1901, v.1, pt.9; 1902, v.10, pt.1; 1902/03, v.6; 1903/04, v.12; 1904/05, v.11; 1905/06, v.8; 1906/07, v.8 (r 353.6 U25).

Smithsonian Institution. r 506 S66m v.35

Smithsonian meteorological tables (based on Guyot's Meteorological and physical tables). 1893. (In its Miscellaneous collections, v.35.)

United States—Weather bureau.

qr 551.5 U25bu

Bulletin [lettered]. no.H, N, P, X-Z. 1900-13.

no.H. West Indian hurricanes, by E. B. Garriott.

no.N. Periodic variation of rainfall in the arid region, by W. B. Stockman.

no.P. Cold waves and frost in the United States, by E. B. Garriott.

no.X. Hurricanes of the West Indies, by O. L. Fassig.

no.Y. The Ohio and Mississippi floods of 1912, by H. C. Frankenfield.

no.Z. The floods of 1913 in the rivers of the Ohio and lower Mississippi valleys, by A. J. Henry.

For other numbers see preceding volumes of this catalogue.

United States—Weather bureau.

r 551.5 U25b

Bulletin [numbered]. no.6-10, 13, 22, 35, 37-38, 42-44. 1892-1913.

no.6. The diurnal variation of barometric pressure, by F. N. Cole.

no.7. Report of the first annual meeting of the American Association of State Weather Services.

no.8. Report on the climatology of the cotton plant, by P. H. Mell.

no.9. Report on the forecasting of thunderstorms during the summer of 1892, by N. B. Conger.

no.10. The climate of Chicago, by H. A. Hazen.

no.13. Temperature injurious to food products in storage and during transportation, and methods of protection from the same, by H. E. Williams.

no.22. Climate of Cuba, by W. F. R. Phillips.

no.35. Long-range weather forecasts, by E. B. Garriott.

no.37. Recent practice in the erection of lightning conductors, by A. J. Henry.

no.38. Mississippi river levees and their effect on river stages during flood periods, by S. C. Emery.

no.42. Forecasting the weather, by G. S. Bliss.

no.43. The rivers and floods of the Sacramento and San Joaquin watersheds, by N. R. Taylor.

no.44. The climate of San Francisco, by A. G. McAdie.

Publication discontinued with no.44.

For other numbers see preceding volumes of this catalogue.

United States—Weather bureau.

qr 551.5 U25bul

Bulletin of the Mount Weather Observatory; general index, v.1-6.

(In v.6, p.253-264.)

No more published. Merged with the "Monthly weather review" and its supplements.

For v.1-6 see preceding catalogue, v.6.

United States—Weather bureau.

r 551.5 U25c

Circular [lettered]. A-G, L. 1913-15.

For contents see Contents book kept at the reference desk.

United States—Weather bureau.

r 551.5 U25w

The Weather bureau. 1913.

The same. 1915.....r 551.5 U25w2

Pamphlet giving its history and describing its work and the advantages resulting from it.

Shaw, William Napier.

551.501 S53

Forecasting weather. 1911. Constable.

. Contains maps and charts.

Well-written, trustworthy book on the modern science of weather forecasting.

Records valuable work of British meteorological office during recent years.

United States—Weather bureau.

qr 551.505 U25c

Climatological data for the United States by sections, 1914-15.

v.1-2. 1914-15.

A collection of the monthly climatological reports of the states, originally issued separately for each state or section. Similar data appeared in the "Monthly weather review" for July 1909 to Dec. 1913.

Allen, William Nicholas. 551.507 A43

Course in meteorology and physical geography. 1911. (United States—Weather bureau. Bulletin [numbered] no.39.)

"Reference books" at the end of each exercise.

The same. (In United States—Weather bureau. Bulletin [numbered] no.39.).....r 551.5 U25b no.39

Cave, Charles John Philip. q 551.51 C29

Structure of the atmosphere in clear weather; a study of soundings with pilot balloons. 1912. Cambridge University Press.

Detailed report of the results of 200 pilot balloon soundings.

"Purpose of investigation is to determine whether the wind in the upper air is the same in direction and velocity as that at the surface, and to form a numerical estimate of the deviations that are observed." *Chapter 1.*

Vialay, Alfred. qr 551.51 V29

Contribution à l'étude des relations existant entre les circulations atmosphériques, l'électricité atmosphérique et le magnétisme terrestre. 1911.

Altitudes

White, James, F. R. G. S. qr 551.53 W63a

Altitudes in the Dominion of Canada. Ed.2. 1915.

Written with the assistance of G. H. Ferguson and issued by the Commission of conservation, Canada.

Supplemented by his "Dictionary of altitudes in the Dominion of Canada."

White, James, F. R. G. S. qr 551.53 W63d2

Dictionary of altitudes in the Dominion of Canada. Ed.2. 1916.

"Authorities," pref. p.8-11.

Issued by the Commission of conservation, Canada.

Supplementary to his "Altitudes in the Dominion of Canada."

United States—Geological survey. r 557-3 U25b

Results of spirit leveling. (In its Bulletin.)

Alabama, 1911. no.517.	Mississippi, 1901-15. no.639.
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Colorado, 1896-1914. no.565.	New Mexico, 1902-15. no.638.
Florida, 1911. no.516.	New York, 1896-1911. no.514.
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Idaho, 1896-1914. no.567.	Oklahoma, 1895-1912. no.564.
Illinois, 1909-13. no.493, 553.	Oregon, 1896-1913. no.556.
Indiana, 1897-1911. no.555.	South Dakota, 1896-1915. no.643.
Iowa, 1896-1913. no.569.	Tennessee, 1910-11. no.519.
Kansas, 1896-1913. no.571.	Texas, 1896-1915. no.637.
Kentucky, 1898-1913. no.554.	Utah, 1897-1914. no.566.
Louisiana, 1903-15. no.634.	Virginia, 1900-13. no.562.
Maine, 1899-1915. no.633.	Washington, 1896-1913. no.557.
Maryland, 1896-1911. no.563.	West Virginia, 1896-1915. no.632.
Michigan, 1911-13. no.559.	Wisconsin, 1897-1914. no.570.
Minnesota, 1897-1914. no.560.	Wyoming, 1896-1912. no.558.

For earlier reports see preceding catalogue, v.6.

Climate. Rainfall

Huntington, Ellsworth. qr 551.56 H94

The climatic factor as illustrated in arid America, with contributions by Charles Schuchert, A. E. Douglass and C. J. Kullmer. 1914. (Carnegie Institution of Washington. Publication no.192.)

"Bibliography," p.297-298.

Philippine islands—Weather bureau.

qr 551.57 P49

Annual amount and distribution of rainfall in the Philippines, by Miguel Saderra Masó; prepared under the direction of José Algué. 1914.

United States—Weather bureau.

qr 551.57 U25

Daily river stages at river gage stations on the principal rivers of the United States, 1911-15. v.11-13. 1913-16.

"This series of river gage readings was begun by the Signal Service and has been continued by the Weather Bureau."

For v.6-10 see preceding volumes of this catalogue.

Livingston, Mrs Grace (Johnson), comp.

r 016.551573 L74

Annotated bibliography of evaporation. [1910. U. S. Government.]

Reprinted from "Monthly weather review," June 1908-June 1909.

Lists articles bearing on the subject from the point of view of the meteorologist, the agriculturist, the irrigation and hydraulic engineer. Articles dealing with hygrometry, evaporation from plants, or transpiration have in general not been included. Chronological arrangement, with excellent annotations.

Metamorphism**Leith, Charles Kenneth, & Mead, W. J.**

551.6 L56

Metamorphic geology; a text-book. 1915. Holt.

Bibliographical foot-notes.

General text, not for the professional investigator. For more detailed information the reader is referred to G. P. Merrill's "Treatise on rocks, rock weathering and soils," C. R. Van Hise's "Treatise on metamorphism," and F. W. Clarke's "Data of geochemistry."

Stratigraphical geology**Dawson, Sir John William.**

r 551.7 D33

Story of the earth and man. 1875. Harper.

Grabau, Amadeus William.

r 551.7 G76

Principles of stratigraphy. 1913. Seiler.

"Bibliography" at the end of each chapter.

Comprehensive work by an authority.

"For the student and for the professional geologist...Aims to bring together those facts and principles which lie at the foundation of all our attempts to interpret the history of the earth from the records left in the rocks." *Preface.*

Geikie, James.

551.79 G28an

The antiquity of man in Europe. 1914. Van Nostrand.

"Deals...with the purely geological side of prehistoric anthropology, anatomical and archaeological matters being only referred to so far as is necessary to make the geological story intelligible. The extreme views on the question of the antiquity of man obtain scant recognition...and the opinions expressed are representative of the more cautious school of anthropologists." *Science progress, 1914.*

Leverett, Frank, & Taylor, F. B.

qr 551.79 L66p

The Pleistocene of Indiana and Michigan and the history of the Great lakes. 1915. (United States—Geological survey. Monographs, v.53.)

Bibliography, p.33-54.

Lewis, Henry Carvill.

r 551.79 L67

Papers and notes on the glacial geology of Great Britain and Ireland; ed. from his unpublished mss. with an introduction by H. W. Crosskey. 1894. Longmans.

Structural geology

Leith, Charles Kenneth.

551.8 L56

Structural geology. 1914. Constable.

A clear treatise on the study and interpretation of rock structures.

"Emphasis upon geological structures as related parts of a record or process, rather than as isolated facts, determines the method of presentation in this book. Illustrations are chosen principally from the United States." *Introduction*.

"Our first text-book on structural geology. The chapters in the thirteenth and sixteenth annual reports of the U. S. Geological Survey series, by Willis and Van Hise, respectively, with the works of Gilbert, Spurr, and others, have long been the classic references in English on most phases of this subject." *Economic geology*, 1914.

Bartlett, James L.

r 551.91 B27

Frosts in Wisconsin; occurrence, prediction, methods of prevention. 1909. (Wisconsin University. Bulletin; university extension series, v.1, no.2.)

"Bibliography," p.43.

552 Petrology

Wadsworth, Marshman Edward.

qr 552 W12

Lithological studies; a description and classification of the rocks of the Cordilleras. 1884. (Harvard University—Museum of comparative zoology. Memoirs, v.11, pt.1.)

"Continuation of the publications of the Geological survey of California begun...in 1860...Dr. Wadsworth having been led by his investigations to place his work on a considerably different basis from that built upon by other lithologists, has found it desirable, and indeed necessary, to incorporate in it results obtained from the study of material not furnished by the Cordilleran collections." *J. D. Whitney, in Introductory note*.

Weinschenk, Ernst.

552 W45

Petrographic methods; the authorized English translation of part 1, Anleitung zum gebrauch des polarisationsmikroskops, and part 2, Die gesteinsbildenden mineralien; rendered into English by R. W. Clark. 1912. McGraw.

Pays particular attention to the use of the microscope in examination of rocks and rock minerals, and gives methods of investigation. Describes and tabulates individual minerals, giving distinctive characteristics.

Daly, Reginald Aldworth.

552.1 D17

Igneous rocks and their origin. 1914. McGraw.

"Intended to summarize and correlate the facts known about igneous rocks with special emphasis on their field relations. Knowledge of petrography, and a moderate acquaintance with the physics and chemistry of rock-melts are assumed, but the treatment of the subject is essentially geological." *Chapter 1*.

Finlay, George Irving.

552.1 F49

Introduction to the study of igneous rocks. 1913. McGraw.

Elementary work on the microscopical examination of rocks and their quantitative classification.

Hatch, Frederick Henry.

552.1 H34

Petrology of the igneous rocks; a summary of the modern theories of petrogenesis, a description of the rock-forming minerals, and a synopsis of the chief types of the igneous rocks and their distribution as

Hatch, Frederick Henry—*continued*.

552.1 H34

illustrated by the British Isles. Ed.7, rev. 1914. Allen. (Text-book of petrology, v.1.)

This and the companion volume ("Petrology of the sedimentary rocks," by Hatch and Rastall) "constitute a complete, if necessarily brief, survey of the whole science of rocks, not only in regard to their composition and structure but also in respect to their origin and metamorphism." *Preface*.

Was brought fully up to date in 1909. Revision since that time has been slight.

Iddings, Joseph Paxson.

r 552.1 I14

Igneous rocks; composition, texture and classification, description and occurrence. v.2. 1913. Wiley.

"Literature cited in part two," v.2, p.659-674.

"A treatise on igneous rocks which does not in the least pattern after the numerous works on the subject, but from the outset follows a new plan. The author has studied the igneous rock with the aid of modern developments in physics and chemistry and makes the understanding of composition and texture in the light of those developments the all-important thing." *Whitman Cross, in Science, 1909*.

For v.1 see preceding catalogue, v.6.

Hatch, Frederick Henry, & Rastall, R. H.

552.5 H34

Petrology of the sedimentary rocks; a description of the sediments and their metamorphic derivatives, with an appendix on The systematic examination of loose detrital sediments, by T. Crook. 1913. Allen. (Text-book of petrology, v.2.)

"The literature of the subject is large and scattered, and the authors are to be congratulated on their successful attempt at its collation in the book under review, which is the first of its kind. The title scarcely records the scope of the work, since the majority of rocks usually treated as metamorphic are also described." *Knowledge, 1913*.

Farrington, Oliver Cummings.

qr 506 N15 v.13

Catalogue of the meteorites of North America to Jan. 1, 1909. 1915. (In National Academy of Sciences. *Memoirs*, v.13.)

An authoritative work. Bibliography of the general subject is reviewed in the introduction, a list of meteorites is given by states or countries, and a "Description of falls," with many cross references, gives all available data, composition and bibliography of the individual occurrences.

Merrill, George Perkins.

qr 506 N15 v.14, pt.1

Report on researches on the chemical and mineralogical composition of meteorites, with especial reference to their minor constituents. 1916. (In National Academy of Sciences. *Memoirs*, v.14, pt.1.)

Johannsen, Albert.

552.8 J35

Manual of petrographic methods. 1914. McGraw.

Contains bibliographies.

Comprehensive in treatment. Particular attention to principles of light and theory of lenses, and to microscopes and other optical instruments used in petrographic work.

Wright, Frederic Eugene.

qr 552.8 W93

Methods of petrographic-microscopic research; their relative accuracy and range of application. 1911. (Carnegie Institution of Washington. Publication no.158.)

Considers methods best adapted for the microscopic examination of fine-grained and artificial preparations.

553 Economic geology

For Mining engineering, see 622

- Burat, Amédée.** r 553 B88
 Angewandte geognosie; oder, Das auffinden und der bau nutzbarer mineralien; uebers. von Heinrich Krause und J. P. Hochmuth. 1844.
- Canada—Mines branch.** (Department of mines.) r 553 C16
 Report on the non-metallic minerals used in the Canadian manufacturing industries, by Howells Fréchette. 1914.
 Interesting and valuable report on commercial utilization of a large number of products.
- Gunther, Charles Godfrey.** 553 G97
 Examination of prospects; a mining geology. 1912. McGraw.
 Convenient and satisfactory handbook for the practical prospector, avoiding theoretical discussions. Assumes a knowledge of mineralogy and elementary geology.
- Richardson, Charles Henry.** 553 R41
 Economic geology. 1913. McGraw.
 Deals only with metallic ores, mainly as they occur in the United States. Includes chapters on origin of ore deposits.
- United States—Geological survey.** r 557.3 U25b
 Contributions to economic geology, 1910, pt.2—date. 1912—date. (In its Bulletin, 1912—date.)
 A collection of papers by various members of the survey, issued annually, together with lists of survey publications on the minerals described.
 For volumes for 1902–09, 1910, pt.1 see preceding catalogue, v.6.
- Wadsworth, Marshman Edward.** qr 553 W12
 [Economic geology; a collection of pamphlets.] 1913–14.
Contents: Practical work in mines or cooperative practice.—The ore deposits of western United States.—Some points about mining education and mine valuation.—The mineral wealth of Canada.—The mineral industry of the United States.

Ore deposits

- Bain, Harry Foster, ed.** 553.1 B16
 Types of ore deposits. 1911. Mining and Scientific Press.
 Contains chapters by H. F. Bain and others.
 Collection of trustworthy papers from various sources. Each deals with some typical deposit or some representative problem of ore deposition, and each is by an authority.
- Beyschlag, Franz Heinrich August, and others.** 553.1 B46
 The deposits of the useful minerals and rocks; their origin, form and content; tr. by S. J. Truscott. v.1–2. 1914–16. Macmillan.
 Contains many bibliographies.
 As compared with other standard works on ore deposits it is (1) wider in scope, dealing with both ores and non-metallic minerals; (2) concerned primarily with principles, and, though dealing separately with various important minerals, the individual occurrences are considered only by way of illustration. Comprehensive in treatment. Generously illustrated. Authors are able investigators in field of economic geology, Dr Beyschlag being (1914) director of the Prussian geological survey.
- Beyschlag, Franz Heinrich August, and others, ed.** qr 553.1 B46
 Die lagerstätten der nutzbaren mineralien und gesteine nach form, inhalt und entstehung. v.2. 1913.
 Contains many bibliographies.
 For v.1 see preceding catalogue, v.6.

Lindgren, Waldemar.

553.1 L71

Mineral deposits. 1913. McGraw.

Comprehensive work by an authority. Classifies mineral deposits according to origin and method of formation, and selects a few typical examples to illustrate each genetic group of deposits. Author was until recently (1913) chief geologist, United States geological survey.

Stutzer, Otto.

qr 553.1 S93

Die wichtigsten lagerstätten der "nicht-erze." v.1-2. 1911-14.

v.1. Graphit, diamant, schwefel, phosphat.

v.2. Kohle (allegemeine kohlengeologie).

Supplements in a way Beck's "Lehre von den erzlagerstätten." Authoritative and thorough. Describes world's deposits of non-metallic minerals named.

Coal

For Coal mining, see 622.33

Canada—Mines branch. (Department of mines.)

qr 553.2 C16

Investigation of the coals of Canada, with reference to their economic qualities, as conducted at McGill University, Montreal, by J. B. Porter and others. 7v. in 5. 1912-15.

"Bibliography," v.1, p.122-126; v.7, p.184-188.

v.7 is a supplement with title "Weathering of coal."

Concerned not only with boiler, gas producer and chemical tests with coal but describes also coal fields, collection of samples, coal washing operations, etc.

International Geological Congress (12th), Toronto, 1913. qr 553.2 I24

Coal resources of the world; an inquiry made upon the initiative of the executive committee of the congress with the assistance of geological surveys and mining geologists of different countries; ed. by William McInnes [and others]. 4v. 1913. Morang.

v.1-3. Text.

v.4. Atlas.

Comprehensive and valuable report on the known coal regions of the world. Most of the articles are in English, and nearly all have been written by experienced geologists and mining engineers especially for this report. In the case of Greenland, Peru and Brazil it has been necessary to compile from previously published literature.

New South Wales—Geological survey.

r 553.2 N26

Coal resources of New South Wales, by E. F. Pittman. [Ed.2.] 1912.

The same. 1901. (In its Mineral resources of New South Wales, p.307-348.).....r 559.44 N26m

Stevenson, John James, b. 1841.

553.2 S84

Formation of coal beds. 1911-13.

Reprinted from the "Proceedings of the American Philosophical Society," v.50-52, 1911-13.

The same. (In American Philosophical Society. Proceedings, v.50, p.1-116, 519-643; v.51, p.423-553; v.52, p.31-162.)....r 506 A512 v.50-52

Systematic statement of conclusions reached by investigators, showing the gradual development of scientific opinion.

Maps—Pennsylvania. (1882.)

r 553.24 M13

Map issued by H. C. Frick Coke Co. showing location of the famous Connellsville coal vein, May 1st, 1882. 1882. Pittsburgh.

Size, 21¼ x 20¾ inches, folded in 8° cover.

Sheafer, Peter Wenrick.

r 553.25 S53

The anthracite coal fields of Pennsylvania and their exhaustion; read before the American Association for the Advancement of Science, at Saratoga, Sept. 1st, 1879. [1879.]

Petroleum. Natural gas

For Petroleum production, see 622.338

Bannister, Lémuel.

r 553.28 B22

Something about natural gas; its origin, extent and development, the piping systems, safety appliances and devices for its safe and economic utilization. 1886. Baldwin.

Clapp, Frederick Gardner, and others.

qr 553.28 C51

Petroleum and natural gas resources of Canada. 2v. 1914-15.

v.1. Technology and exploitation.

v.2. Description of occurrences.

Issued by the Mines branch of the Department of mines of Canada.

"Bibliography," v.1, p.345-359.

Columbia Oil Company, Pittsburgh.

r 553.28 C72

Act of incorporation and by-laws. [1864. Pittsburgh.]

Columbia Oil Company, Pittsburgh.

r 553.28 C72a

Annual report (2d-26th), 1863-87. 1864-88. Pittsburgh.

Cunningham-Craig, Edward Hubert.

553.28 C92

Oil-finding; an introduction to the geological study of petroleum, with an introduction by Sir Boverton Redwood. 1912. Arnold.

Able treatment of the geological formation of oil deposits and the origin of petroleum. Includes interesting and suggestive chapters on "Indications of petroleum" and "Location of wells."

"Laudable and successful attempt to deal with a subject which has hitherto received far too little attention." *Boverton Redwood, in Introduction.*

Hager, Dorsey.

553.28 H14a

Practical oil geology; the application of geology to oil field problems. Ed.2, rev. & enl. 1916. McGraw.

The same. 1915.....553.28 H14

Concise handbook, with special reference to American methods of prospecting, mapping and development.

Henry, James Dodds.

qr 553.28 H452

History and romance of the petroleum industry. v.1. 1914.

Volume 1 deals rather fully with Colonel Drake and the early oil industry in Pennsylvania.

"This volume is work of a light description; it deals with the earliest crude chronicles, legends and history of the dawn of the industry...Later volumes will deal with industrial and engineering developments and events of greater interest and importance."

Author's note.

Huntley, Louis Grow.

r 553.28 H94

[Writings on petroleum and natural gas.] 1913-15.

Contents: Possible causes of the decline of oil wells and suggested methods of prolonging yield.—Petroleum in Mexico.—Oil, gas and water content of Dakota sand in Canada and United States.—Summary report on the petroleum and natural gas resources of Canada, by F. G. Clapp and L. G. Huntley.—Practical oil geology; a review of Dorsey Hager's recent publications on the geology as connected with petroleum, by R. H. Johnson and L. G. Huntley.—Oil field of Calgary [Canada].—Plans for control of wild gas wells, by R. H. Johnson and L. G. Huntley.—Use of graphic models in showing the geology of oil and gas pools.

- Irvin, Samuel P.** r 553.28 I28
 The oil bubble. 1868. Privately printed.
 Rambling account of the early petroleum industry in western Pennsylvania.
- Maps—Pennsylvania.** (1915.) r 553.28 M13
 Oil and gas map of southwestern Pennsylvania, 1915. 1916.
 Size, 27½ x 28 inches, folded in 8° cover; scale, 4 miles to 1 inch.
 Issued, with an explanatory pamphlet, by the Pennsylvania topographic and geologic survey.
- Maps—United States.** (1914.) qr 553.28 M12
 United States [map showing] oil and gas fields in 1913, by D. T. Day and others. 1914.
 Size, 47⅞ x 76 1-16 inches, folded in folio cover; scale, approximately 40 miles to 1 inch.
 Issued by the United States geological survey.
- Shaw, Eugene Wesley, & Munn, M. J.** 553.28 S53
 Coal, oil and gas of the Foxburg quadrangle, Pennsylvania. 1911.
 (United States—Geological survey. Bulletin no.454.)
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- Tassart, L. C.** qr 553.28 T22
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 Exhaustive. Gives much space to conditions and practice in the United States.
- Tower, Walter Sheldon, & Roberts, John, F. G. S.** 553.28 T65a
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- Westcott, Henry Palmer.** r 553.28 W56
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 Tables, formulas and general information on all branches of the industry.
- Young, John Russell.** r 553.28 Y38
 Visit to the oil regions of West Virginia, Ohio and Pennsylvania; a special report to Forney's Philadelphia press, Dec. 5, 1864. 1864.
 Ringwalt. qr 553.2805 O19
- Oil and gas; monthly, April 1911–Sept. 1915.** v.3–7. 1911–15. Pittsburgh.
 Publication discontinued with v.7.

Ores

Iron ores

- Crowell & Murray, Cleveland.** r 553.3 C89
 Iron ores of Lake Superior; containing some facts of interest relating to mining and shipping of the ore and location of principal mines. Ed.2. 1914. Penton.
 Compilation giving history, geology, production and chemical analysis of ores, and data on the various mines.

- Eckel, Edwin Clarence.** 553.3 E25
 Iron ores; their occurrence, valuation and control. 1914. McGraw.
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- Iron trade review.** r 553.3 I286
 Lake Superior iron ore shipments for 1911 and preceding years by mines and ranges, iron ore on dock, receipts at Lake Erie ports and prices for 22 years. 1912.
The same. 1913. Penton Pub. Co. r 553.3 I286a
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- Mississippi—Geological survey.** r 553.3 M74
 Report of the state geologist on the iron ores of Marshall and Benton counties, made to the Geological commission May 1, 1912. 1912.

Non-ferrous ores

- Mines handbook; a manual of the mining industry of North America,** r 553.43 S84
 1900-01, 1913-date. v.1-2, 12-date. 1900-date.
 v.1-2, 1900-01, ed. by H. J. Stevens; v.12-date, 1913-date, ed. by W. H. Weed.
 v.1-11 title reads "Copper handbook."
 Beginning with v.12, this handbook was enlarged to include all metals except iron.
 For v.3-11 see preceding catalogue, v.4, under Stevens, Horace J. comp. Copper handbook.

- Hess, Frank Lee, & Hess, Eva, comp.** r 506 S66m v.58
 Bibliography of the geology and mineralogy of tin. 1912. (In Smithsonian Institution. Miscellaneous collections, v.58, no.2.)

- Walker, Thomas Leonard.** qr 553.46 W17
 Report on the molybdenum ores of Canada. 1911.
 Issued by the Mines branch of the Department of mines of Canada.
 "Bibliography," p.58.
 Describes deposits of chief economic importance and discusses briefly ore dressing and applications of molybdenum.

- Coleman, Arthur Philemon.** qr 553.48 C68
 The nickel industry, with special reference to the Sudbury region, Ontario. 1913.
 Issued by the Mines branch of the Department of mines of Canada.
 Describes all the known deposits of nickel ore in Ontario, and chief deposits elsewhere and discusses mining and metallurgical methods.

- Curran, Thomas Francis Vincent.** r 553.49 C93
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 Pamphlet, outlining briefly the properties, occurrence and ore values of carnotite, leading up to a presentation of the curative value of radium.

- Malcolm, Wyatt.** r 553.49 M28
 Notes on radium-bearing minerals. 1914. (Prospector's handbook no.1.)
 Issued by the Geological survey of Canada.
 Pamphlet, briefly describing location and occurrence, with special attention to Canadian deposits.

Building stones. Clays. Cement

Canada—Mines branch. (Department of mines.) r 553-5 C16

Report on the building and ornamental stones of Canada, by W. A. Parks. v.1-4. 1912-16.

"Not intended for the professional geologist, but rather as a summary of Canada's resources in building stone, and as a guide for the builder and quarry operator." *Author's preface.*

Eckel, Edwin Clarence. 553-5 E25

Building stones and clays; their origin, characters and examination. 1912. Wiley.

"List of references" at the end of many of the chapters.

The same.....r 553-5 E25

Discusses occurrence and properties, and gives considerable attention to laboratory tests, and field examination and valuation of quarries. Good information on slate.

Ries, Heinrich. 553-5 R44

Building stones and clay-products; a handbook for architects. 1912. Wiley.

"Literature on building stones," p.87-90.

Elementary but authoritative presentation of the important facts. Does not pretend to be exhaustive, and for further details on building stones refers to Merrill's "Stones for building and decoration."

Weiss, Karl, ed. qr 553-5 W46

Handbuch der steinindustrie, unter mitwirkung von C. Gäbert [und anderen]. 2v. 1915.

v.1. Die nutzbaren gesteinsvorkommen Deutschlands; verwitterung und erhaltung der gesteine.

v.2. Technik der steingewinnung und steinverarbeitung.

Contains bibliographies.

v.2 is a valuable technical treatise on methods of quarrying and working stone, with considerable attention to the explosives employed in blasting.

Eckel, Edwin Clarence, and others. 553-51 E25

Portland cement materials and industry in the United States. 1913. (United States—Geological survey. Bulletin no.522.)

"Bibliography," by E. F. Burchard, p.375-381.

The same. 1913. (In United States—Geological survey. Bulletin no.522.).....r 557-3 U25b no.522

"Intended to be a discussion of the Portland cement materials of the United States, not a manual of cement manufacture, nor a guide to cement testing or utilization. A brief sketch of the general status of the Portland cement industry is, however, presented." *Introduction.*

Discusses in some detail the resources of each state.

Bleekman, George. 553-54 B54

Story of slate and the slate industry. 1911.

Popular sketch of the history, geology and characteristics of slate, with chief attention to American quarries.

Searle, Alfred Broadhead. 553-61 S43

Natural history of clay. 1912. Cambridge University Press. (Cambridge manuals of science and literature.)

"Bibliography," p.168-169.

Popular outline of origin, properties, classification and commercial applications.

Sand. Gypsum. Phosphates

Canada—Mines branch. (Department of mines.) r 553.62 Cr16

Preliminary report on the bituminous sands of northern Alberta, by S. C. Ells. 1914.

Study of the economic importance of these sands, with special reference to utilization in road construction. Concludes that only a small proportion of the known outcrops will at present lend themselves to development on a commercial scale.

Mackenzie, George C. r 553.62 Mr18

Magnetic iron sands of Natashkwan, county of Saguenay, province of Quebec. 1912.

Issued by the Mines branch of the Department of mines of Canada.

Alberti, Friedrich August von. r 553.63 A33

Halurgische geologie. 2v. 1852.

Cole, L. Heber. r 553.63 C68

Gypsum in Canada; its occurrence, exploitation and technology. 1913.

"Bibliography," p.165-179.

With this is bound "Gypsum deposits of the maritime provinces [of Canada]," by W. F. Jennison.

Issued by the Mines branch of the Department of mines of Canada.

Jennison, William F. qr 553.63 J26

Report on the gypsum deposits of the maritime provinces [of Canada]. 1911.

Issued by the Mines branch of the Department of mines of Canada.

The same. 1913.....r 553.63 C68

Bound with Cole, L. H. "Gypsum in Canada."

Discusses also gypsum products and their uses, and the methods and costs of manufacturing.

Adams, Frank Dawson, & Dick, W. J. r 553.64 A21

Discovery of phosphate of lime in the Rocky mountains. 1915.

"Leading references on Western phosphate deposits," p.31.

Issued by the Commission of conservation, Canada.

Mineral springs

Ishizu, Risaku, ed. qr 553.7 I29

Mineral springs of Japan, with tables of analyses, radio-activity, notes on prominent spas and list of seaside resorts and summer retreats; specially ed. for the Panama-Pacific International Exposition. 1915.

Published by the Tokyo imperial hygienic laboratory.

Besides general information regarding the meteorology of Japan, and descriptions of the numerous springs, there are tables arranged geographically, and according to radioactivity, temperature, flow of water, quantity of solid ingredients, altitude and number of visitors.

Precious stones

Pogue, Joseph Ezekiel. qr 506 N15 v.12, pt.2

Turquoise; a study of its history, mineralogy, geology, ethnology, archæology, mythology, folklore and technology. 1915. (In National Academy of Sciences. Memoirs, v.12, pt.2.)

"Bibliography," p.137-154.

Smith, George Frederick Herbert. 553.8 S64

Gem-stones and their distinctive characters. [1912.] Methuen.

Non-technical discussion of properties and technology of precious, semi-precious and ornamental stones, including the organic products, pearl, coral and amber.

Mica

Canada—Mines branch. (Department of mines.) r 553.9 C16a

Mica; its occurrence, exploitation and uses, by H. S. de Schmid.
Ed.2. 1912.

"Literature consulted," p.391-398.

Zeitler, Hans. r 553.9 Z43

Mica; its history, production and utilisation. 1913. Jaroslaw.

"Bibliography," p.87.

Brief but valuable study of chemical and physical properties, geological occurrence, production and applications.

Geology of special regions

554 Europe. 555 Asia

Hartung, Georg. qr 554.698 H33

Geologische beschreibung der inseln Madeira und Porto Santo, mit dem systematischen verzeichnisse der fossilen reste dieser inseln und der Azoren von Karl Mayer. 1864.

"Literatur," pref. p.9-10.

Carnegie Institution of Washington. qr 555.1 C21

Research in China. v.1, pt.2; v.3. 1907-13. (Publication no.54.)

v.1, pt.2. Petrography and zoology, by Eliot Blackwelder.—Syllabary of Chinese sounds, by Friedrich Hirth.

v.3. The Cambrian faunas of China, by C. D. Walcott.—A report on Ordovician fossils collected in eastern Asia in 1903-04, by Stuart Weller.—A report on upper paleozoic fossils collected in China in 1903-04, by G. H. Girty.

For other volumes see preceding catalogue, v.6, under Willis, Bailey, and others.

Wang, Chung Yu, comp. r 016.5551 W19

Bibliography of the mineral wealth and geology of China. 1912.
Griffin.

Includes mining industry, metallurgy, petrology and paleontology.

Kharajian, Hagop A. r 555.6 K24

Regional geology and mining of Armenia. 1915. Nersso Press.

"Bibliography," p.70-72.

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United States—Geological survey. r 016.557 U25b

Bibliography of North American geology, with subject index, 1910-

15. v.4-5. 1910-16. (United States—Geological survey. Bulletin.)

v.4. 1910-13.

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For v.1-3 see preceding catalogue, v.6.

United States—Geological survey. r 016.557 U25a3

Publications of the survey, not including topographic maps [issued quarterly]. 1912-16.

For earlier editions see preceding catalogue, v.6.

United States—Geological survey. r 016.557 U25t

Topographic maps and folios and geologic folios published by the United States geological survey. 1911.

General works

557 P96

Problems of American geology; a series of lectures dealing with some of the problems of the Canadian shield and of the Cordilleras, delivered in Dec. 1913, by W. N. Rice [and others]. 1915. Yale University Press. (Yale University. Silliman memorial lectures.)

Contents: Preface, by Charles Schuchert.—The geology of James Dwight Dana, by W. N. Rice.—Problems of the Canadian shield; the Archæozoic, by F. D. Adams.—The Proterozoic of the Canadian shield and its problems, by A. P. Coleman.—The Cambrian and its problems in the Cordilleran region, by C. D. Walcott.—The igneous geology of the Cordilleras and its problems, by Waldemar Lindgren.—The Tertiary orogeny of the North American Cordillera and its problems, by F. L. Ransome.—The Tertiary sedimentary record and its problems, by W. D. Matthew.

Canada

Canada—Geological survey. r 557.1 C16g

Guide book. no.1-10. 1913.

no.1. Excursion in eastern Quebec and the maritime provinces (excursion A1).

no.2-4. Excursions in the eastern townships of Quebec and the eastern part of Ontario (excursions A2, A5 and A9).—Excursions in the neighbourhood of Montreal and Ottawa (excursions A6, A7, A8, A10, A11).—Excursions in southwestern Ontario (excursions A4, B1, A12, B3).

no.5-7. Excursions in the western peninsula of Ontario and Manitoulin island (excursions B4, B7, B9 and C5).—Excursions in vicinity of Toronto and to Muskoka and Madoc (excursions B2, B5, B6, B8 and B10).—Excursions to Sudbury, Cobalt and Porcupine (excursions A3 and C6).

no.8. Transcontinental excursion C1; Toronto to Victoria and return via Canadian Pacific and Canadian northern railways.

no.9-10. Transcontinental excursion C2; Toronto to Victoria and return via Canadian Pacific, Grand trunk Pacific and National transcontinental railways.—Excursions in northern British Columbia and Yukon Territory and along the north Pacific coast.

Contains bibliographies.

Prepared for use at the 12th International Geological Congress, Toronto, 1913.

Annotated guides with bibliographic references, affording valuable information in regard to structural geology and ore deposits.

Canada—Geological survey. qr 557.1 C16m

Memoir. no.1-92. 1910-16.

No.3 and 12 form v.3, pt.5 and v.2, pt.3 of "Contributions to Canadian palæontology" (qr 557.1 C16c).

No.42, 45-46, 48-49, 62-63, 70-71, 75, 80, 86, 90-91 form part of the "Anthropological series" and are not received by the Library.

Canada—Geological survey. r 557.1 C16mu

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No.1 has title "Victoria Memorial Museum bulletin."

Canada—Geological survey.**qr 557.1 C16r**

Reports of progress, 1843-44, 1851/52-1852/53, 1857, 1874/75. v.1-2, 9-10, 12, 20. [1845]-85.

These reports were continued in a new series under the name of "Annual reports" beginning in 1885.

The reports issued in 1863 (v.13a) under the title of "Report of progress from its commencement to 1863," includes the most important facts published in the "Reports of progress" between 1843 and 1863.

"The operations of the Geological Survey at first extended only to the areas of the Provinces of Ontario and Quebec, then known as Upper and Lower Canada respectively. Subsequent to the date of Confederation (1867), the field became extended to include the whole area of the Dominion of Canada, and reports relating to different parts of this vast region began to appear with the volume of 1866-69, v.15." *G. M. Dawson, director of survey.*

For other reports see preceding catalogue, v.1, 4.

Canada—Mines branch. (Department of mines.)**qr 557.1 C167e2**

Economic minerals and mining industries of Canada. [Ed.2.] 1914. Panama Pacific edition.

The same. 1913.....**qr 557.1 C167e**

Brief description of geologic features, and the occurrence and distribution of individual products, with notes on mining laws, licenses and officials.

Canada—Mines branch. (Department of mines.)**qr 557.1 C167r**

[Reports on geology of Canada.] 1913-15.

Canadian mining journal.**r 557.1 C1672**

Porcupine mining district; a series of illustrated articles, accompanied by a complete geological map and claim maps of the various townships. 1911. (Porcupine series, v.1.)

Wilson, Morley E.**qr 557.14 W77**

Geology of an area adjoining the east side of Lake Timiskaming, Quebec. 2v. 1910.

v.1. Text.

v.2. Map.

Issued by the Mines branch of the Department of mines of Canada.

Survey "undertaken for the purpose of determining the extent easterly of those geological formations which in Ontario have been found to contain cobalt-silver-nickel ores." *Introduction.*

Part of the field operations were under the direction of Dr A. E. Barlow.

Mexico**Mexico—Instituto geológico.****qr 557.2 M65**

Boletín. no.31, 34. 1916.

no.31. La flora liasica de la Mixteca Alta, con atlas, by G. R. Wieland.

no.34. Descripción de unas plantas liasicas de Huayacocotla, Ver., Algunas plantas de la flora liasica de Huauchinango, Pue., por E. D. Lozano.

For no.13-15 see preceding catalogue, v.4.

United States**Ries, Heinrich.****557.3 R44a3**

Economic geology. Ed.4, rev. & enl. 1916. Wiley.

Gives briefly the main facts of the occurrence and production of economically useful minerals. Numerous bibliographies included.

- United States**—Geological survey. qr 557.3 U25g
 Geologic atlas of the United States. Folio 184-199. 1912-16.
 For contents see Contents book kept at the reference desk.
 —Index to atlas sheets.....qr 557.3 U25to
 For folio 1-183 see preceding volumes of this catalogue.
- United States**—Geological survey. r 557.3 U25r
 Regulations and instructions of the United States geological survey. 1911.
 Organization, regulations established by secretary of the interior, and detailed instructions to members of the survey by the director.
- United States**—Geological survey. r 557.3 U25s
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 Published annually.

State surveys

Maine. New Hampshire

- Maine**—Scientific survey. r 557.41 M266
 Annual report (1st-2d) upon the natural history and geology of the state of Maine, 1861-62. [1861-62.]
 Report for 1861 will be found in the Annual report of the Board of agriculture of Maine (r 630.6 M265 v.6).
- New Hampshire**—Geological survey. (2d survey.) r 557.42 N261
 Annual report (1st) upon the geology and mineralogy of the state, by C. H. Hitchcock [1868/69]. 1869.

Massachusetts. Connecticut

- Massachusetts**—Geological survey. r 557.44 M45re
 Report on a re-examination of the economical geology of Massachusetts, by Edward Hitchcock. 1838.
- Connecticut**—State geological and natural history survey. r 557.46 C753
 Biennial report (5th-7th) of the commissioners, 1911-16. 1912-16.
 (In its Bulletin, no.21, 25, 27.)
 For earlier reports see preceding catalogue, v.6.

New York. Pennsylvania

- Hartnagel, Chris A.** r 557.47 H33
 Classification of the geologic formations of the state of New York. 1912. (New York (state)—Education department. Handbook no.19.)
- Pennsylvania**—Geological survey. (2d survey.) r 557.48 P399re
 Report of the Board of commissioners to the legislature, Jan. 1, 1883, 1887. [1883-87.]
- Pennsylvania**—Topographic and geologic survey r 557.48 P3993
 commission.
 Biennial report, 1910/12-1912/14. 1912-14.
 Contains index maps of topographic atlas sheets issued to 1914, and of geological folios issued to 1908, by the U. S. geological survey, covering the state of Pennsylvania.
 The topographic sheets described are in the Library and have call number qr 557.3 U25to. Geological folios have call number qr 557.3 U25g.
 Report for 1910/12 reads "Topographic and geologic survey of Pennsylvania."
The same, 1912/14. 1914.....557.48 P39
 For report for 1899/1906-1908/10 see preceding catalogue, v.6.

Pennsylvania—Topographic and geologic survey commission. r 557.48 P3993r v.2

Geologic map of southwestern Pennsylvania. 2 pts. 1914. (In its Report no.2.)

pt.1. [Descriptive text.]

pt.2. [Maps.]

Pennsylvania—Topographic and geologic survey commission. r 016.55748 P39

Publications of the United States geological survey relating to Pennsylvania. 1914.

Wherry, Edgar Theodore. qr 557.48 W61

Contributions to the mineralogy of the Newark group in Pennsylvania. [1910.]

"Reference," p.23.

Thesis for Ph. D., University of Pennsylvania.

Reprinted from the "Transactions of the Wagner Free Institute of Science of Philadelphia," v.7, Feb. 1910.

New Jersey. Maryland

New Jersey—Geological survey. (3d survey.) r 557.49 N26am

Annual report (4th, 6th–13th, 15th, 17th–18th) of the state geologist, 1867, 1869–76, 1878, 1880–81. 1868–81.

Beginning with 1910, the annual reports formerly issued as single volumes, including the administrative reports and scientific papers, were discontinued and these are now issued as "Bulletins."

For other reports see preceding catalogue, v.1, 4.

New Jersey—Geological survey. (3d survey.) qr 557.49 N26at

Atlas of New Jersey. [1887–90.]

New Jersey—Geology division. r 557.49 N26b

Bulletin, 1911–date. no.2–date. 1911–date.

By the creation of the Department of conservation and development in July 1915, the Geological survey became the Division of geology of that department.

Maryland—Geological survey. (2d survey.) r 557.52 M439

Guide to the state mineral exhibit, illustrating the mineral resources and industries, geology and modern methods of road construction, installed by the survey at Annapolis. 1912.

Maryland—Geological survey. (2d survey.) qr 557.52 M43

[Report.] v.5–9. 1905–11.

v.5 (1905). Second report on magnetic work in Maryland, by L. A. Bauer.—Final report on the survey of the boundary line between Allegany and Garrett counties, by L. A. Bauer.—Third report on the highways of Maryland, by A. N. Johnson.—Report on the coals of Maryland, by W. B. Clark, with the collaboration of G. C. Martin [and others].

v.6 (1906). The physical features of Maryland, by W. B. Clark and E. B. Mathews, with the collaboration of others.—Exhibits of Maryland mineral resources, by W. B. Clark.—Fourth report on the highways of Maryland, by A. N. Johnson.—First report on state highway construction, by W. W. Crosby.—The counties of Maryland, their origin, boundaries, and election districts, by E. B. Mathews.

v.7 (1908). Report on the resurvey of the Maryland-Pennsylvania boundary, part of the Mason and Dixon line; authorized by the legislatures of Maryland and Pennsylvania.

v.8 (1909). Second report on state highway construction, by W. W. Crosby.—Maryland mineral industries, 1896–1907, by W. B. Clark and E. B. Mathews.—Report on the

Maryland—Geol. survey. (2d survey.)—*continued.* qr 557-52 M43
limestones of Maryland with special reference to their use in the manufacture of lime and cement, by E. B. Mathews and J. S. Grasty.

v.9 (1911). Third report on state highway construction, for period from Jan. 1, 1908, to Jan. 1, 1910, by W. W. Crosby.—Summary final report on the work of the Highway division of the Maryland geological survey, 1898–1910, by W. B. Clark.—Fourth and final report on state highway construction, to June 1, 1910, by W. W. Crosby.—Report on the iron ores of Maryland, with an account of the iron industry, by J. T. Singewald.—Report on the lines of equal magnetic declination in Maryland for 1910, by L. A. Bauer.

For v.1–4, see preceding catalogue, v.1.

Maryland—Geological survey. (2d survey.) qr 557-52 M43re

[Reports on the systematic geology and paleontology of Maryland.]

v.4–6. 1911–16.

v.4. Lower Cretaceous.

v.5, pt.1. Lower Devonian; text.

v.5, pt.2. Middle and upper Devonian; text.

v.5, pt.3. Devonian plates.

v.6. Upper Cretaceous; pt.1, text, pt.2, text and plates.

Contains bibliographies.

For v.1–5 see preceding catalogue, v.1, 6.

West Virginia. Virginia

Maps—West Virginia. (1913.) r 557-54 M2

Map of West Virginia, showing coal, oil, gas, iron ore and limestone areas. 1913.

Issued by the West Virginia geological survey.

Size, 32 11-16x41 5-8 inches, folded in 8° cover; scale, 8 miles to 1 inch.

Maps—West Virginia. (1914.) r 557-54 M5

Map of West Virginia, showing coal, oil, gas, iron ore and limestone areas; pub. by the West Virginia geological survey. Rev. ed. 1914.

Size, 32 x 40¾ inches, folded in 8° cover; scale, 8 miles to 1 inch.

West Virginia—Geological survey. r 557-54 W56b

Bulletin. no.2. 1910.

no.2. Levels coal analysis, by I. C. White.

For no.1 see preceding catalogue, v.1.

West Virginia—Geological survey. r 557-54 W56c

County reports and maps. v.6–16. [1912–16.]

The second part of each volume consists of maps.

For v.1–5 see preceding catalogue, v.6.

West Virginia—Geological survey. r 557-54 W56

Report, 1913–date. v.5a–date. [1913]–date.

v.5a. The living flora of West Virginia, by C. F. Millsbaugh.—The fossil flora of West Virginia, by David White.

For v.1–5 see preceding catalogue, v.1, 6.

Maps—Virginia. (1909.) qr 557-55 M2

Map of Virginia showing location of mines and quarries, drawn by J. H. Watkins under the direction of the state geologist, 1909. 1909. Hoen.

Size, 17¼ x 39 inches; folded in 4° cover; scale, 12 miles to 1 inch.

Maps—Virginia. (1911.) qr 557-55 M

Geological map of Virginia, by T. L. Watson. [1911.] (Virginia—Geological survey.)

Size, 26¾ x 59¾ inches, folded in folio cover; scale, about 8 miles to 1 inch.

Virginia—Geological survey. (Survey of 1904- .) **qr 557.55 V349a**
Administrative report (1st), 1908-09. 1910.

Virginia—Geological survey. (Survey of 1904- .) **qr 557.55 V349**

Bulletin. no.2-10, 12. 1906-16.

For contents see Contents book kept at the reference desk.

For no.1 see preceding catalogue, v.4.

North Carolina. South Carolina

North Carolina—Geological survey. (Survey of 1891- .) **r 557.56 N45b**

Bulletin. no.2, 5, 7, 12. 1894-1907

no.2. The building and ornamental stones of North Carolina, by T. L. Watson and others.

no.5. Forests, forest lands and forest products of eastern North Carolina, by W. W. Ashe.

no.7. Forest fires, their destructive work, causes and prevention, by W. W. Ashe.

no.12. History of the gems found in North Carolina, by G. F. Kunz.

For other volumes see preceding catalogue, v.1.

North Carolina—Geological survey. (Survey of 1891- .) **qr 557.56 N45re**

[Report], 1912-date. v.3-date.

v.3. The coastal plain of North Carolina, by W. B. Clark and others.

The survey has heretofore limited its publications to a series of smaller preliminary reports in the form of bulletins and economic papers, embodying the immediate results of its investigations. This series beginning in 1905, is to be made up of more elaborate reports which will embody the results of the maturer investigations relating to one or more special subjects.

For v.1-2 see preceding catalogue, v.4, 6.

South Carolina—Geological survey. (Survey of 1901- .) **r 557.57 S726**

Bulletin. no.2. 1908.

no.2. Catalogue of the mineral localities of South Carolina, by Earle Sloan.

For no.1 see preceding catalogue, v.4.

Georgia. Alabama

Georgia—Geological survey. **qr 557.58 G31**

Bulletin. no.20-22, 27-30. 1912-16.

no.20. Mineral waters of Georgia, by S. W. McCallie.

no.21. Marls and limestones of Georgia, by G. E. Brantly.

no.22. Brown iron ores of Georgia, by S. W. McCallie.

no.27. A report on the limestones and cement materials of North Georgia, by T. P. Maynard.

no.28. A third report on the public roads of Georgia, by S. W. McCallie.

no.29. A report on the asbestos, talc and soapstone deposits of Georgia, by O. B. Hopkins.

no.30. A preliminary report on the feldspar and mica deposits of Georgia, by S. L. Galpin.

For other volumes see preceding catalogue, v.6.

Georgia—Geological survey. **r 557.58 G31h**

Hand-book mineral resources of Georgia, by S. W. McCallie. 1911.

Contains references.

Stephenson, M. F. **r 557.58 S83**

Geology and mineralogy of Georgia, with a particular description of her rich diamond district; the process of washing for diamonds, their price and mode of cutting and setting; her gold, silver, copper, lead, iron, manganese, graphite, kaolin, coal, fire-clay, mica, corundum, slate, marble, &c. 1871. Globe Pub. Co.

- Alabama**—Geological survey. r 557.61 A31b
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 Size, 30¾ x 38 9-16 inches, folded in 8° cover; scale, 3 miles to 2 inches.
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For other volumes see preceding catalogue, v.4, 6.

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For report for 1906–07 see preceding catalogue, v.6.

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Bulletin. no.11–20. 1910–16.

This series is designated as the 4th although no legal enactment confers the new title on the present organization. The work is being done under the law of 1889 which marks the end of the 2d and the beginning of the 3d organization.

For no.1–10 see preceding catalogue, v.4, 6.

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Maps—Wisconsin. (1911.) **qr 557.75 M**

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Annual report (8th), 1879. 1880.

For other reports see preceding catalogue, v.1, 4.

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v.12. The geology of the Rolla quadrangle, by Wallace Lee.

v.13. The stratigraphy of the Pennsylvania series in Missouri, by Henry Hinds and F. C. Greene.

For v.1-10 see preceding catalogue, v.4, 6.

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qr 557.82 N18

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California—State mining bureau. r 557.94 C13a

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South Australia. New South Wales. Tasmania

South Australia—Geological survey. qr 559.42 S72a

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 Histoire naturelle éclaircie dans une de ses parties principales,
 l'oryctologie, qui traite des terres, des pierres, des métaux, des miné-
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 méthode latine & françoise de les diviser, & une notice critique des
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Shimer, Hervey Woodburn. 560 S55
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Solms-Laubach, Hermann, graf zu.

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Wieland, George Reber.

qr 561 W68

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Canada—Geological survey.

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Figures and descriptions of Canadian organic remains. pt.1. 1859.

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Grabau, Amadeus William, & Shimer, H. W.

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v.1. Protozoa, porifera, hydrozoa, anthozoa, bryozoa, brachiopoda, pelecypoda, scaphopoda and gastropoda.

v.2. Conularida, pteropoda, cephalopoda, annelida, trilobita, phyllopoda, ostracoda, cirripedia, malacostraca, merostomata, arachnida, myriopoda, insecta, cystoidea, blastoidea, crinoidea, ophiuroidea, asteroidea, echinoidea, and appendices.

Contains numerous bibliographies.

Deals with the American invertebrate fossils most useful in identification of geologic strata. Little attempt has been made at a classification and grouping into divisions of less than ordinal rank. Early chapters appeared in 1906-07 in the "School of mines quarterly" of Columbia University.

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v.2. Plates.

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Weller, Stuart.

qr 564.8 W48

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Mix, Jennie Irene.

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For pt.1 see preceding catalogue, v.6.

Holland, William Jacob, & Peterson, O. A.

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Scott, William Berryman.

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Elementary text-book written to meet the requirements of the conjoint examining board of the Royal Colleges of Physicians and Surgeons of England.

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Gibson, William Hamilton.

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Contents: Odd ways of insects.—Glimpses of wild life.—Curiosities of plants.

Selections from his "Eye spy," "Sharp eyes," and other books.

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Herter, Christian Archibald.

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Kearton, Cherry.

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Contents: Overture by the birds.—The building of a bird.—The birds' nest.—Cannibals in court.—Chorus by the birds.—Monarchs in exile.—Wolf!—Under the polar star.—A sealskin jacket at home.—The beaver's story.

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No.1 title reads "Studies in public health."

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A journal devoted more especially to the natural history of Ohio. The official organ of the Ohio State University Scientific Society and of the Ohio Academy of Science.

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Philadelphia, Academy of Natural Sciences.

r 570.6 P49

Index to the scientific contents of the Journal and Proceedings of the Academy, 1817–1910.

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Comstock, Mrs Anna (Botsford).

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Handbook of nature-study for teachers and parents; based on the Cornell nature-study leaflets, with much additional material. 1911. Comstock.

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Holtz, Frederick Leopold.

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Pt.1 is devoted to a discussion of underlying principles and methods; pt.2 contains appropriate subject-matter of a biological nature, with practical hints and suggestions on the collection and care of material, and the presentation of lessons; pt.3 consists of a course of nature-study for the eight grades. Author is (1909) head of department of nature-study, Brooklyn Training School for Teachers.

Needham, James George.

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Studies of plant and animal life, with considerable attention to cultivated plants and domesticated animals.

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By an amateur naturalist, who was for more than 50 years a missionary in Madagascar. The results of his careful observation are set forth in diary form and in rather rambling style.

Hudson, William Henry, C. M. Z. S. 570.982 H88

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Duckworth, Wynfrid Laurence Henry. 571 D86

Prehistoric man. 1912. Cambridge University Press. (Cambridge manuals of science and literature.)

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"Admirable little book by a master of anthropology." *Geological magazine*, 1912.

Concise, general view of the subject in interesting style, without expression of definite opinion on doubtful problems.

Gratacap, Louis Pope. r 571 G79

A woman of the ice age. 1906. Brentano.

Hall, Harry Reginald Holland. j 571 H17

Days before history, with a preface by J. J. Findlay. 1907. Crowell.

In story form tells of life in the stone age; about the cave and lake dwellings, how the people obtained food and clothing, and made flint arrows and spears, stone axes, baskets and pottery.

Holbrook, Florence. j 571 H69

Cave, mound and lake dwellers, and other primitive people. 1911.

Heath.

Tells about the life of the people who lived in the early days of the world; how they obtained fire, how they cooked their food and about their homes, dress and means of travel.

Lubbock, Sir John, baron Avebury.

571 L96a

Pre-historic times as illustrated by ancient remains and the manners and customs of modern savages. Ed.7, rev. 1913. Williams.

First edition appeared in 1865.

"This is, perhaps, the best summary of the evidence now in our possession concerning the general character of Prehistoric Times...The work may be regarded as introductory to the same author's 'Origin of Civilization.'" *Adams's Manual of historical literature.*

Osborn, Henry Fairfield.

571 O29

Men of the old stone age; their environment, life and art. 1915. Scribner.

"Bibliography," p.513-532.

Based on three weeks' tour through the paleolithic caverns of Italy, France and Spain.

Sollas, William Johnson.

571 S68

Ancient hunters and their modern representatives. 1911. Macmillan.

Aims to give the early history of mankind and reviews the successive ages and their peoples, beginning with the great ice age. A scholarly survey of investigations and conclusions, and, at the same time, popular in its appeal.

Munro, Robert, b. 1835.

q 571.1 M96

Palæolithic man and terramara settlements in Europe; the Munro lectures in anthropology and prehistoric archæology in connection with the University of Edinburgh, delivered during February and March 1912. 1912. Oliver.

"Bibliography of lake-dwelling and terramara researches in Italy," p.477-487.

British Museum—British and mediæval antiquities department.

r 571.2 B75a

Guide to the antiquities of the stone age. Ed.2. 1911.

Well illustrated manual which is not only a guide, but also a convenient text-book.

Primitive art and industry

Wren, Christopher, of Pennsylvania.

r 571.55 W92

A study of north Appalachian Indian pottery. 1914.

"Authorities," p.98.

Reprinted from "Proceedings of the Wyoming Historical and Geological Society," v.13.

The same. (In Wyoming Historical and Geological Society, Wilkesbarre, Pa. Proceedings and collections, v.13.).....r 974.8 W99 v.13

Laufer, Berthold.

r 913.72 F45 v.10

Jade; a study in Chinese archæology and religion. 1912. (In Field Museum of Natural History. Publications; anthropological series, v.10.)

"Bibliography," p.355-360.

Mounds and mound-builders

Moore, Clarence Bloomfield.

qr 571.91 M87sl

Some aboriginal sites in Louisiana and in Arkansas; Atchafalaya river, Lake Larto, Tensas river, Bayou Maçon, Bayou d'Arbonne in Louisiana, Saline river in Arkansas. 1913.

Reprint from the "Journal of the Academy of Natural Sciences of Philadelphia," v.16.

With this is bound "A report on a collection of crania and bones from Sorrel bayou, Iberville parish, Louisiana," by Aleš Hrdlička.

Moore, Clarence Bloomfield.

qr 571.91 M87s

Some aboriginal sites on Red river. 1912. Stockhausen.

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Good illustrations of weapons and utensils, many in color.

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Marett, Robert Ranulph.

572 M38

Anthropology. [1912.] Holt. (Home university library of modern knowledge.)

"Bibliography," p.251-253.

Popularly written survey, brief but authoritative.

qr 572 R35

Reports upon the present condition and future needs of the science of anthropology; presented at the request of the Carnegie Institution of Washington. 1913. (Carnegie Institution of Washington. Publication no.200.)

Contents: Report on anthropological research outside America, by W. H. R. Rivers.
—Report on the science of anthropology in the Western hemisphere and the Pacific islands, by A. E. Jenks.—Archaeological research at the ruins of Chichen Itza, Yucatan, by S. G. Morley.

Bibliography, p.83-88.

[**Folkmar, Daniel.**]

r 325.1 U2537 v.5

Dictionary of races or peoples [written with the assistance of E. C. Folkmar]. 1911. (In United States—Immigration commission, 1907-10. Reports, v.5.)

"Selected bibliography of general works," p.8-12.

Haddon, Alfred Cort.

572.3 H12

The wanderings of peoples. 1911. Cambridge University Press.
(Cambridge manuals of science and literature.)

Brief bibliographies.

"Object... is to give a brief survey of the trend of human migrations so far as our imperfect knowledge permits. [In the space available it is possible only to] indicate without describing, the movements, their causes and effects." *Preface.*

Special races

Hose, Charles, & McDougall, William.

572.991 H81

Pagan tribes of Borneo; a description of their physical, moral and intellectual condition, with some discussion of their ethnic relations,

Hose, Charles, & McDougall, William—*continued*. 572.991 H81
with an appendix on The physical characters of the races of Borneo,
by A. C. Haddon. 2v. 1912. Macmillan.

"A most instructive account...while the style in which the book is written is so agreeably intimate that to read it is to make a personal visit to Borneo." *Outlook* (London), 1913.

"Represents the work of fourteen years by one who has had unrivalled opportunities, and it will become a standard work on Borneo." *Saturday review*, 1913.

qr 572.991 S94

The Subanu; studies of a sub-Visayan mountain folk of Mindanao. 1913. (Carnegie Institution of Washington. Publication no.184.)

Contents: Ethnographical and geographical sketch of land and people, by J. P. Finley.—Discussion of the linguistic material, by William Churchill.—Vocabularies.

"List of modern books of reference for examination and reading on the subject of American occupation of the Philippines," p.231-232.

Fison, Lorimer, & Howitt, A. W. r 572.997 F54

Kamilaroi and Kurnai; group-marriage and relationship, and marriage by elopement, drawn chiefly from the usage of the Australian aborigines, also the Kurnai tribe, their customs in peace and war, with an introduction by L. H. Morgan. 1880. Robertson.

Contents: Kamilaroi marriage, descent and relationship.—Group marriage and relationship.—The Kurnai, their customs in peace and war.—Theory of the Kurnai system.—Summary and general conclusions.

573 Natural history of man

Boas, Franz. 573 B57

Mind of primitive man; a course of lectures delivered before the Lowell Institute, Boston, Mass. and the National University of Mexico, 1910-1911. 1911. Macmillan.

Contents: Racial prejudices.—Influence of environment upon human types.—Influence of heredity upon human types.—The mental traits of primitive man and of civilized man.—Race and language.—The universality of cultural traits.—The evolutionary viewpoint.—Some traits of primitive culture.—Summary.—Race problems in the United States.

"Notes," p.279-294.

Hereditary traits are at best a possible, but not a necessary, element determining the degree of advancement of a race; the mentality of man appears to be influenced by the degree of his domestication; cultural advancement is essentially a phenomenon dependent upon historical causes regardless of race and the change from primitive to civilized society includes a lessening of the number of the emotional associations and an improvement of the traditional material that enters into our habitual mental operations. *Condensed from Summary*.

Montessori, Maria. 573 M85

Pedagogical anthropology; tr. from the Italian by F. T. Cooper. 1913. Stokes.

Comprehensive, authoritative work. Distinguishes pedagogical anthropology from criminal and medical anthropology. Studies physical development of the human body and its parts as indicative of intellectual and moral characteristics. Quantitative measurements are given considerable space.

Wright, George Frederick. 573.2 W93

Origin and antiquity of man. 1912. Bibliotheca Sacra Co.

Interesting study and discussion of evidence offered by geology, with briefer attention to that given by history, philology, physiology and psychology. Author concludes that "while the antiquity of man cannot be less than ten thousand it need not be more than fifteen thousand years."

Huntington, Ellsworth.

573.4 H94

Civilization and climate. 1915. Yale University Press.

Bibliography, p.6-7.

Study of climate as one of the essential factors controlling human energy and hence in determining the conditions of civilization.

575 Evolution

For Evolution from a religious standpoint, see 213

See also Religion and science, 215

Clodd, Edward.

575 C61p

Primer of evolution. 1908. Longmans.

Contents: The contents of the universe.—The distribution of matter.—The solar system.—The earth; its past life-history.—Present life-forms.—The becoming and growth of the universe.—The origin of life.—The origin of life-forms.—The origin of species.—Proofs of derivation of species.—Social evolution.

An abridgment of his "Story of creation."

"Written in a remarkably clear, simple and attractive style, easily understood by the unscientific reader, and an excellent introduction to the more elaborate works on the subject." *Olive Thorne Miller.*

Conn, Herbert William.

575 C75s

Social heredity and social evolution; the other side of eugenics.

1914. Abingdon Press.

"It is the purpose of this work to show that the laws of the evolution of animals and plants apply to human evolution only up to a certain point, beyond which man has been under the influence of distinct laws of his own...It has appeared to the author that with all the cogency of the facts presented by the eugenists, there is a side of the question of human development which they are overlooking and which their readers are therefore likely to overlook; a side which, in our opinion, weighs more heavily in determining human progress than the laws of inheritance upon which eugenics is based."

Preface.

Delage, Marie Yves, & Goldsmith, Marie.

575 D38

Theories of evolution; tr. by André Tridon. [1912.] Palmer.

Interesting presentation and estimate of the work and theories of Darwin, Weismann, Naegeli, De Vries, Roux, Galton, Mendel, Lamarck and others. Particular attention and favor are shown to Lamarckism.

Geddes, Patrick, & Thomson, J. A.

575 G26

Evolution. 1911. Holt. (Home university library of modern knowledge.)

"Bibliography," p.249-256.

Brief popular outline.

Heineman, Theodore William.

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The physical basis of civilization; a demonstration that two small anatomical modifications determined physical, mental, moral, economic, social and political conditions; with appendix notes on articulate speech, memory, altruism, and a search for the origin of life, sex, species, etc. 1908. Forbes.

A revised version of his "Psychic and economic results of man's physical uprightness."

An attempt to show that all human progress and culture is a result of the erect posture of man.

"Essay on the biological foundations of human culture...Almost wholly deductive in its method, and illustrates both the merits and the defects of dealing with social problems through pure deduction from the antecedent sciences...Author seems to have a good grasp of biological facts and principles; it is only on the side of ethnographic and sociological facts that he is weak." *American journal of sociology*, 1913.

Herbert, Solomon.

575 H46

First principles of evolution. 1913. Black.

"Literature," p.319-326.

Careful examination of the present (1913) status of scientific theories of evolution and of their development. Contains no new or original material, but is comprehensive in treatment.

Knipe, Henry Robert.

q 575 K34

Evolution in the past. 1912. Herbert.

"Authorities consulted," p.217-226.

Non-technical sketch of the history of life on the earth founded on discoveries in the geological strata. Confessedly incomplete, but drawn from the best sources available.

"One of the most fascinating and readable books of the year." *Nature*, 1912.

Mitchell, Peter Chalmers.

575 M74

Evolution and the war. 1915. Dutton.

Contents: War and the struggle for existence.—The struggle for existence amongst animals.—Nationality and race.—The production of nationality; selective factors.—The production of nationality; epigenetic factors.

Written primarily to combat Von Bernhardt's proposition "that war is a fundamental law of development." Author attempts to show "that even if the struggle for existence were a scientific law, it does not necessarily apply to human affairs; that modern nations are not units of the same order as the units of the animal and vegetable kingdom from which the law of struggle for existence is a supposed inference; that the struggle for existence as propounded by Charles Darwin, and as it can be followed in nature, has no resemblance with human warfare."

Moore, John Howard.

575 M87

The universal kinship. 1906. Bell.

Contents: The physical kinship.—The psychical kinship.—The ethical kinship.

"Bibliography" at the end of each chapter.

Entertaining but somewhat prejudiced and unbalanced protest against the claims of man's superiority to the other animals either in origin or in capacity for development.

"One cannot but be amused at the mixture of fact and error, observation and travellers' tales, seriousness of statement and straining after absurd expressions, that characterizes this not unreadable book." *American naturalist*, 1906.

Schmucker, Samuel Christian.

575 S35

Meaning of evolution. 1913. Macmillan. (Chautauqua reading circle literature, 1913.)

Clear and fair presentation of the development of the theory of evolution, with much attention to Darwin's work and to theories of later scientists.

"It is the attempt of this book to give to people whose training is other than scientific some conception of this great story of creation. Without dogmatic certainty, but without indecision, it tries to tell what modern science thinks as to the great problems of life." *Foreword*.

Wiley, Arthur.

575 W73

Convergence in evolution. 1911. Murray.

Applies the term convergence to those resemblances, among animals, which are not derived by inheritance from common ancestors, but which result from functional adaptation to similar ends. It is most frequently met with as mimicry and homoplasy. The word convergence is "used in a wide sense, embracing habits, functions, structure and physiognomy."

"An illuminating exposition of the wide-spread occurrence of convergence in animal structure and habit, and a strong argument for a fairer recognition of its validity and importance... Might be offered as a reference book of animal adaptations." *Science*, 1911.

Heredity

Bateson, William.

575.1 B31a

Mendel's principles of heredity. 1913. Cambridge University press.

"Bibliography," p.387-402.

"Object... is to give a succinct account of discoveries in regard to heredity made by the application of Mendel's method of research." *Preface*.

Bateson, William.

575.1 B31p

Problems of genetics. 1913. Yale University Press. (Yale University. Silliman memorial lectures.)

An attempt to discuss problems of biology in the light acquired by Mendelian methods of analysis. Intended primarily for American readers, and makes use of examples chosen largely from American natural history.

Castle, William Ernest.

575.1 C27

Heredity in relation to evolution and animal breeding. 1911. Appleton.

"Bibliography" at the end of each chapter.

Largely concerned with Mendel's law of heredity.

Castle, William Ernest, and others.

575.1 C27h

Heredity and eugenics; a course of lectures summarizing recent advances in knowledge, in variation, heredity and evolution and its relation to plant, animal and human improvement and welfare. 1912. University of Chicago Press.

Contents: Recent developments in heredity and evolution; The physical basis of heredity and evolution from the cytological standpoint, by J. M. Coulter.—The method of evolution; Heredity and sex, by W. E. Castle.—Inheritance in the higher plants; The application of biological principles to plant breeding, by E. M. East.—Recent advances and the present state of knowledge concerning the modification of the germinal constitution of organisms by experimental processes, by W. L. Tower.—The inheritance of physical and mental traits of man and their application to eugenics; The geography of man in relation to eugenics, by C. B. Davenport.

Nine lectures at the University of Chicago in the summer of 1911.

"Not intended for those trained in biology, but for a general university audience, interested in the progress of genetics as a matter of information rather than of study." *Preface.*

Darbishire, Arthur Duckinfield.

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Breeding and the Mendelian discovery. 1911. Cassell.

Popular introduction, not intended to cover "the whole range of discovery and speculation in this sphere of inquiry, but, rather, to open the door to an intimate familiarity with a few instances of the Mendelian phenomenon, and especially with those studied by Mendel himself." *Preface.*

Davenport, Charles Benedict.

575.1 D29

Heredity in relation to eugenics. 1911. Holt.

"Bibliography," p.273-287.

Outlines methods of study and attempts the application of these methods to certain specific problems, especially to the transmission of various human traits and susceptibilities to disease.

Davenport, Charles Benedict.

qr 575.1 D29h

Heredity of skin color in negro-white crosses, with appendix; being abridgement of field-notes, chiefly of F. H. Danielson. 1913. (Carnegie Institution of Washington. Publication no.188.)

"Literature cited," p.47-48.

Johnson, Roswell Hill.

qr 575.1 J36

[Miscellaneous writings.] 1900-14.

Contents: Three new psychometric tests, by R. H. Johnson and J. M. Gregg.—Marriage selection.—Eugenics and mental variations.—Aberrant societies of Sanguinaria and Trillium.—The Malthusian principle and natural selection.—Heredity of color pattern in Coccinellid beetles.—Mendelian heredity.—Marking oil maps.—Additional factors in the origin and accumulation of oil.—The accumulation of oil and gas in sandstone.—The analysis of natural selection.—Note on a bilateral tulip.—Axial bifurcation in snakes.—Variation and heredity in Coccinellids.—The individuality and variation of the pyloric caeca of the Centrarchidae.—Palaeomonetes and salinity, by R. H. Johnson and R. W. Hall.—[Establishment of a vivarium by the Carnegie Institution.]

- Morgan, Thomas Hunt.** 575.1 M89
Heredity and sex. 1913. Columbia University Press. (Columbia University lectures; Jesup lectures.)

"Bibliography," p.251-278.

Lucid and scholarly statement of advances made in the determination of sex by investigations in heredity.

Aim has been "to point out, wherever possible, the bearing of cytological studies on heredity, and of the study of heredity on the analysis of the germinal materials." *Introduction.*

- Thomson, John Arthur.** 575.1 T38
Heredity. Ed.2. 1913. Putnam.

"Bibliography," p.543-603.

Exhaustive summary of all the more important work and literature on the subject. Characterized by lucid and systematic presentation and by tolerant and judicious criticism of the theories of other investigators.

- Walter, Herbert Eugene.** 575.1 W19
Genetics; an introduction to the study of heredity. 1913. Macmillan.

"Bibliography," p.263-264.

"Simple, clear, comprehensive and scientific statement of the fundamental principles of heredity based upon experiments recently made by himself and others in this field...Professor Walter faces the problem fearlessly and scientifically. His suggestions for improvements are practical and based upon facts." *American journal of sociology*, 1913.

- Whetham, William Cecil Dampier, & Whetham, Mrs** 575.1 W62h
C. D. (Holt).

Heredity and society. 1912. Longmans.

Contents: Introduction.—Variation and heredity.—Natural selection.—The biological influence of religion.—The birth-rate.—The position of women, a survey.—The present position of women.—The problem of education.—Heredity and politics.—The purpose of life.

qr 575.105 J46

Journal of heredity; a monthly publication devoted to plant breeding, animal breeding and eugenics, 1914-date. v.5-date. 1914-date.

Formerly called "American breeders' magazine."

Variation. Environment

- Detlefsen, John Adolph.** qr 575.2 D48

Genetic studies on a cavy species cross, with a prefatory note by W. E. Castle. 1914. (Carnegie Institution of Washington. Publication no.205.)

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- Crile, George Washington.** 575.3 C88

Man, an adaptive mechanism; ed. by Annette Austin. 1916. Macmillan.

"Throughout the book, the author indicates the various forms of adaptation which occur in plant, lower animal and human organic activity. Perhaps the most startling conception submitted is that the reactions to stimuli in plants, lower animals and the human, are one and the same process." *Saint Paul medical journal*, 1917.

- Henderson, Lawrence Joseph.** 575.3 H44

The fitness of the environment; an inquiry into the biological significance of the properties of matter. 1913. Macmillan.

His conception of nature has some of the characteristics of Paleyism in a modernized form, but is essentially uncolored by theological and philosophical prepossessions. Greater part of book is devoted to an account of the chief physicochemical peculiarities of the environment. *Adapted from Science*, 1913.

Eugenics

Danielson, Florence Harris, & Davenport, C. B. q 575.6 D22

The Hill folk; report on a rural community of hereditary defectives. 1912. (Eugenics Record Office. Memoir no.1.)

The sameqr 575.6 D22

"The primary value of this memoir is...to the sociologist rather than to the student of inheritance of human traits. Our field work of the first year has hardly risen to the point of analysis required for a study of heredity...But the sociological importance is clear." *Preface*.

Ellis, Havelock. 575.6 E53

Problem of race-regeneration [with a general introduction by James Marchant]. 1911. Moffat. (New tracts for the times.)

Contents: The improvement of the environment.—The problems of today.—The next step in social reform.—The questions of eugenics.

Serious and sympathetic study of present tendencies in the matter of racial physical vigor and of their influence on the future of the race.

Ellis, Havelock. 575.6 E53t

The task of social hygiene. 1912. Houghton.

Contents: Introduction.—The changing status of women.—The new aspect of the woman's movement.—The emancipation of women in relation to romantic love.—The significance of a falling birth-rate.—Eugenics and love.—Religion and the child.—The problem of sexual hygiene.—Immorality and the law.—The war against war.—The problem of an international language.—Individualism and socialism.

Estabrook, Arthur Howard, & Davenport, C. B. qr 575.6 E85

The Nam family; a study in cacogenics. 1912. (Eugenics Record Office. Memoir no.2.)

"Literature cited," p.85.

Careful study in heredity and social characteristics of "a highly inbred rural community of New York State." The descendants of the family studied were characterized by alcoholism and lack of ambition.

Eugenics Record Office, Cold Spring Harbor, N. Y. r 575.6 E92

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Report covers 27 months, from Oct. 1, 1910 to Dec. 31, 1912.

Gerrard, Thomas J. r 575.6 G32

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Guyer, Michael Frederic. 575.6 G99

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Papers in English, French and Italian, considering eugenics in its practical aspects and in relation to biology, education, sociology and medicine.

- Jordan, David Starr.** 575.6 J42
Heredity of Richard Roe; a discussion of the principles of eugenics. 1911. Amer. Unitarian Assoc.
Clear, sane and interesting in its consideration of the problems of eugenics. Richard Roe is taken as an average man. His career is traced and the effect of hereditary influences is shown.
"The book is not long, but in it is sound exposition of the physiological factors in heredity, of the need of the science of eugenics, and its limitations as well as its possibilities." *Literary digest*, 1912.
- Kellicott, William Erskine.** 575.6 K16
Social direction of human evolution; an outline of the science of eugenics. 1911. Appleton.
Based upon three lectures delivered at Oberlin College, April 1910.
"Sets forth the most recent principles of eugenics, as represented by the modern schools founded by Galton and the followers of the Mendelian principle of heredity... Is a concise, clear, elementary, and at the same time comprehensive discussion." *Survey*, 1911.
- London University—Francis Galton laboratory for** r 575.6 L82
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Eugenics laboratory lecture series [1909-15]. no.1-10. 1909-15.
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- New York (state)—Analysis and investigation bureau.** r 362 N26 no.3
Bibliography of eugenics and related subjects. 1913. (In its Eugenics and social welfare bulletin no.3.)
- Saleeby, Caleb Williams.** 575.6 S16
Methods of race-regeneration [with a general introduction by James Marchant]. 1911. Moffat. (New tracts for the times.)
Temperate and broad-minded in tone. Full of practical suggestions, outlining course to be followed in attempts at race improvement.
- Saleeby, Caleb Williams.** 575.6 S16pr
Progress of eugenics. 1914. Funk.
"Would have succeeded better if he...had maintained a more scientific attitude... Nevertheless, there is much contained in the book that is sensible and is presented with considerable force and literary skill, and this circumstance makes its faults all the more regrettable." *Nature*, 1914.
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Bastian, Henry Charlton.

r 576.11 B29

Origin of life; being an account of experiments with certain super-heated saline solutions in hermetically sealed vessels. 1911. Putnam. (Science series.)

Loeb, Jacques.

576.15 L76

Mechanistic conception of life; biological essays. 1912. University of Chicago Press.

Contents: The mechanistic conception of life.—The significance of tropisms for psychology.—Some fundamental facts and conceptions concerning the comparative physiology of the central nervous system.—Pattern adaptation of fishes and the mechanism of vision.—On some facts and principles of physiological morphology.—On the nature of the process of fertilization.—On the nature of formative stimulation (artificial parthenogenesis).—The prevention of the death of the egg through the act of fertilization.—The rôle of salts in the preservation of life.—Experimental study of the influence of environment on animals.

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Moore, Benjamin.

576.15 M87

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Contents: Physical and psychical evolution.—Genesis of electrons and atoms.—Chemical evolution in the suns.—Chemical compounds on earth.—Building materials for living matter.—Evolution of colloids.—The origin of life.—How life came to earth.—The living organism at work.—Cyclic activities of life, waking and sleeping, fatigue and recuperation.

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Czapek, Friedrich.

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Chemical phenomena in life. 1911. Harper. (Harper's library of living thought.)

Concise presentation of recent views of biochemistry.

"Although the author is a professor of plant physiology, he treats his subject in a wide manner, so as to be helpful to animal physiologists as well." *Nature*, 1911.

Jordan, Edwin Oakes.

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Text-book of general bacteriology. Ed.3, rev. 1913. Saunders.

The same. Ed.5, rev. 1916.....r 576.8 J42a

"General introduction to the subject...with some regard for perspective and with emphasis on general rather than on special questions." *Preface*.

Marshall, Charles Edward, *ed.*

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Microbiology; a text-book of microorganisms general and applied. 1912. Blakiston.

Deals with laboratory methods and with practical applications, covering besides ordinary bacteriological methods such branches as the microbiology of air, water, milk, soil, sewage, plants and special industries.

"Perhaps one of the most comprehensive books on bacteriology, using the term in its broadest sense, that is at present available to English readers." *Knowledge*, 1912.

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Minot, Charles Sedgwick.

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Problem of age, growth and death; a study of cytomorphosis, based

Minot, Charles Sedgwick—*continued*.

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Studies the life history of cells in their biological and morphological aspects, and gives experimental observations from the growth of animals.

Arrhenius, Svante August.

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Quantitative laws in biological chemistry. 1915. Bell.

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Exhaustive reference work intended to cover the field of biochemistry in the same thorough way in which "Beilstein" covers organic chemistry. Arrangement is less convenient for reference than "Beilstein." Composed of monographs, most of which will be of value only to specialists. Exceptionally full references to original sources.

r 577.105 J46

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v.1-7, Oct. 1905-June 1910, published irregularly.

No numbers published Jan.-Feb. 1911.

Index; authors, subjects, formulas, v.1-25, Oct. 1905-July 1916.

578 Microscopy

Leitz, Ernst.

qr 578 L56

The microscope and some hints on how to use it. [1910.]

With this are bound his "Guide to photo-micrography" and "Directions for the use of the large metallurgical microscope with camera."

American Microscopical Society.

r 578.05 A5122

Transactions; index, v.1-25, 1879-1903. (In its Transactions, v.25, p.187-234.)

v.1-16, 1879-1904, title reads "Proceedings."

Until 1891 the American Microscopical Society was called the American Society of Microscopists.

For volumes of transactions see preceding catalogue, v.1.

r 578.9 A67

Archiv für mikroskopische anatomie [1884/85-88]. v.24-32. 1885-88.

Issued irregularly.

For other volumes see preceding catalogue, v.1.

579 Collectors' manuals

Verrill, Alpheus Hyatt.

579 V28

Harper's book for young naturalists; a guide to collecting and preparing specimens, with descriptions of the life, habits and haunts of birds, insects, plants, etc. 1913. Harper.

Practical information for young collectors. Gives clear and simple directions for collecting and mounting birds and birds' nests, insects, minerals, fossils, Indian relics, plants, fruits, woods, etc.

Ward, Rowland.

579.4 W21

Sportsman's handbook to collecting, preserving and setting-up trophies & specimens, with a guide to the hunting grounds of the world. Ed. 10, enl. 1911. Privately printed.

Handbook giving practical directions for collecting, preserving and mounting vertebrate animals. Particular attention is paid to big game. Recommends taxidermic supplies manufactured by the author.

580 Botany

Armstrong, Margaret, & Thornber, J. J.

r 580 A73

Field book of Western wild flowers. 1915. Putnam.

Popular guide to the more common flowers west of the Rocky mountains. Flowers found only in the Rocky mountains are not included. A particularly attractive book. Both line drawings and colored plates are of unusual merit.

Balfour, John Hutton.

r 580 B19

Manual of botany; an introduction to the study of the structure, physiology and classification of plants. Ed. 5. 1875. Black.

Behrens, Julius Wilhelm.

r 580 B38

Text-book of general botany; translation from the second German ed., rev. by Patrick Geddes. 1885. Pentland.

Bergen, Joseph Young, & Caldwell, O. W.

580 B45i

Introduction to botany. 1914. Ginn.

Excellent elementary manual. Mainly a condensation of authors' "Practical botany." Contains glossary.

Bergen, Joseph Young, & Caldwell, O. W.

580 B45

Practical botany. 1911. Ginn.

"As here set forth the study of plants is related to every day life more closely than is usually done. Those aspects of plant life are presented which have the largest significance to the public in general, and which are of interest and educative value to beginning students." *Preface.*

Britton, Elizabeth Gertrude.

j 580 B75

Wild plants needing protection.

Contents: Jack in the pulpit.—Spring beauty.—Wild pink.—Wild columbine.—Bird's-foot violet.—Wild azalea.—Pink moccasin flower.—American, or mountain, laurel.—Flowering dogwood.

Reprinted from the "Journal of the New York Botanical Garden," v. 13-14, May 1912-July 1913.

The same. (In New York Botanical Garden. Journal,

v. 13-14.) r 580.7 N26

Contains colored plates.

Clements, Frederic Edward, & Clements, Mrs Edith

qr 580 C56

(Schwartz).

Rocky mountain flowers; an illustrated guide for plant-lovers and plant-users. 1914. Wilson.

Moderately technical. Valuable for the numerous illustrations. Both line drawings and colored plates are rather formal in rendering, but generally accurate.

"The range of the book is essentially that of Coulter-Nelson's 'Manual'. . . The layman will find the book useful over a much wider area, since the majority of the species in color occur from the Canadian Rockies to California or Arizona." *Preface.*

Coulter, John Merle, and others.

r 580 C83

Text-book of botany for colleges and universities, by members of the botanical staff of the University of Chicago, J. M. Coulter, C. R. Barnes, H. C. Cowles. v.2. 1911. Amer. Book Co.

v.2. Ecology.

"Supplementary literature," v.2, p.954-964.

By professors respectively of morphology, physiology and ecology, the three general divisions of the subject as organized at Hull botanical laboratory. Each author is responsible for his own distinct part. Intended for undergraduate students, but for supplementary rather than ordinary text-book use.

For v.1 see preceding catalogue, v.6.

Cowles, Henry Chandler, & Coulter, J. G.

580 C84

Spring flora for high schools. 1915. Amer. Book Co.

Concise but reliable guide to identification of 380 familiar plants which flower before July in the North Central and Eastern states. Contains a single comprehensive key, and many illustrations. Grasses, sedges, rushes and most of the willows and hawthorns are omitted on account of their difficulty.

Figuier, Louis.

r 580 F47

Vegetable world; being a history of plants with their botanical descriptions and peculiar properties. 1869. Cassell.

Keeler, Harriet Louise.

580 K150

Our early wild flowers; a study of the herbaceous plants blooming in early spring in the northern states. 1916. Scribner.

Attractive guide to the more common plants blooming in the northeastern United States in March, April and May. Special attention to flora of northern Ohio.

Kellerman, William Ashbrook.

r 580 K16

Text-book of elementary botany, including a spring flora. 1900. Eldredge.

Knight, Alfred Ernest, & Step, Edward.

q 580 K343

Popular botany; the living plant from seed to fruit. 2v. [1913.] Holt.

Valuable and attractive work. Well illustrated.

Maeterlinck, Maurice.

qr 580 M24

Hours of gladness; tr. by A. Teixeira de Mattos, illustrated by E. J. Detmold. [1912.] Allen.

Contents: Our city gardens.—The intelligence of the flowers.—Perfumes.—News of spring.—Field flowers.—Chrysanthemums.—Old-fashioned flowers.—The wrath of the bee.

Marion, Fulgence.

r 580 M38

Wonders of vegetation; from the French, ed. with numerous additions by Schele De Vere. 1874. Scribner.

Describes and illustrates remarkable forms of plant life.

Mathews, Ferdinand Schuyler.

580 M47f2

Field book of American wild flowers; a short description of their character and habits, a concise definition of their colors, and references to the insects which assist in their fertilization. Rev. & enl. ed. 1912. Putnam.

The same. Rev. & enl. ed. 1912.....j 580 M47a

The same. 1911.....j 580 M47

Nuttall, Mrs G. Clarke.

580 N53

Wild flowers as they grow; photographed in colour direct from nature by H. E. Corke, with descriptive text by G. C. Nuttall. v.2-7. 1911-14. Cassell.

Especially for British readers but most of the flowers selected are also common in the United States.

For v.1 see preceding catalogue, v.6.

Peterson, Maude Gridley.

580 P45

How to know wild fruits; a guide to plants when not in flower by means of fruit and leaf. 1908. Macmillan.

Classifies by color of fruit and deals with those plants only which have attractively colored fruits.

Sargent, Frederick Leroy.

580 S24

Plants and their uses; an introduction to botany. 1913. Holt.

Interesting and original in arrangement and treatment. Plants are considered according to their uses commercially, as food plants, flavoring and beverage plants, medicinal and poisonous plants, and industrial plants.

Spalding, Volney Morgan.

r 580 S73

Guide to the study of common plants; an introduction to botany. 1895. Heath. (Science text-books.)

"Works of reference," pref. p.15-18.

Practical laboratory manual, rather general in scope, and with some attention to structural and ecological matters.

Walton, George Lincoln.

580 W19

The flower-finder. 1914. Lippincott.

Excellent popular guide to flower identification.

Weathers, John.

580 W36

The bulb book; or, Bulbous and tuberous plants for the open air, stove and greenhouse, containing particulars as to descriptions, culture, propagation, etc. of plants from all parts of the world having bulbs, corms, tubers or rhizomes (orchids excluded). 1911. Murray.

"Publications quoted and consulted," p.459-460.

The same.....r 580 W36

Arrangement is alphabetical, with short descriptions of appearance and botanical features of the different species.

Wood, Alphonso.

r 580 W85am

American botanist and florist, including lessons in the structure, life and growth of plants, with a simple analytical flora, descriptive of the native and cultivated plants growing in the Atlantic division of the American union. 1870. Barnes.

Wood, Alphonso.

r 580 W85

Class-book of botany; designed for colleges, academies and other seminaries, illustrated by a flora of the Northern, middle and Western states, particularly of the United States north of the capitol, lat. 38½°. Ed.41, rev. & enl. 2 pts. in 1. 1846. Moore.

Wood, Alphonso.

r 580 W85c

Class-book of botany; outlines of the structure, physiology and classification of plants, with a flora of the United States and Canada. 1871. Barnes.

A classic among botanical texts. In the excellence of its descriptive notes and its clearness as a guide to identification it is perhaps unsurpassed by any modern work (1916).

Wood, Alphonso. r 580 W85h

How to study plants; or, Introduction to botany; an illustrated flora; ed. by J. D. Steele to accompany the "Fourteen weeks series in natural science." 1882. Barnes.

Binder's title reads "Fourteen weeks in botany."

Youmans, Eliza Ann. r 580 Y35

Descriptive botany; a practical guide to the classification of plants, with a popular flora. 1885. Amer. Book Co.

Classification. Nomenclature. Dictionaries

Bentley, Robert. r 580.1 B44

Student's guide to systematic botany, including the classification of plants and descriptive botany. 1884. Churchill.

Eaton, Amos. r 580.1 E19

Manual of botany for North America, containing generic and specific descriptions of the indigenous plants and common cultivated exotics growing north of the Gulf of Mexico. Ed.7. 1836. Steele.

The same. Ed.6. 1833.....r 580.1 E19a

Among American botanists the author ranks with Gray and Torrens. His works were for a long time the standard in this country, and his various editions are still the accepted source for original descriptions of many species.

Loudon, John Claudius, ed. r 580.1 L92

Encyclopædia of plants; comprising the description, specific character, culture, history, application in the arts and every other desirable particular respecting all the plants, indigenous, cultivated in or introduced to Britain. 1836. Longman.

"Names of books referred to," p.7-13.

——Second additional supplement to Loudon's "Encyclopædia of plants," between the publication of the first additional supplement in 1840 and March 1855, with a new general index to the whole work; prepared by George Don, under the direction of Mrs J. C. Loudon, assisted by David Wooster. [1855. Longmans.].....r 580.1 L92a

Lyons, Albert Brown, comp. r 580.1 L99

Plant names, scientific and popular, with botanical and popular synonyms and many vernacular German, French and Spanish names. Ed.2, rev. & enl. 1907. Nelson.

Especially intended to meet the practical needs of the retail druggist. An attempt has been made to include all plants of medicinal value, plants furnishing food stuffs, and all flowering plants known to occur in North America north of Mexico.

Thornton, Robert John. r 580.1 T41

Elements of botany. 2v. in 1. 1812.

Warming, Eugenius. r 580.1 W23

Handbook of systematic botany, with a revision of the fungi by E. Knoblauch; tr. and ed. by M. C. Potter. 1895. Sonnenschein.

Excellent work on natural history of plant groups. Now (1916) out of date in many respects.

Crozier, Arthur Alger, ed.

r 580.3 C89

Dictionary of botanical terms. 1892. Holt.

Does not neglect agriculture and horticulture, "as it aims to include all technical terms applied to plants both by botanists and others." *Preface.*

Jackson, Benjamin Daydon, comp.

r 580.3 J12a

Glossary of botanic terms, with their derivation and accent. [Ed.3.] 1916. Duckworth.

"Bibliography," p.424-427.

Periodicals

qr 580.5 A51

American journal of botany; official publication of the Botanical Society of America [monthly], 1914-date. v.1-date. 1914-date.

No numbers issued in August and September.

qr 580.5 A61

Annals of botany; ed. by I. B. Balfour [and others; quarterly], Aug. 1887-date. v.1-date. 1887-date.

——— Index, v.1-10, Aug. 1887-96.

——— Index, v.11-20, 1897-1906.

Minnesota botanical studies. v.4, pt.2-4. 1911-16.

r 580.5 M72

Issued by Minnesota geological and natural history survey.

For earlier volumes see preceding catalogue, v.6.

New York Botanical Garden.

qr 580.5 N26

Memoirs. v.5-6. 1915-16.

v.5. Taylor, Norman. Flora of the vicinity of New York; a contribution to plant geography.

v.6. Papers presented at the celebration of the 20th anniversary of the New York Botanical Garden, Sept. 6-9, 1915.

For v.1-4 see preceding catalogue, v.1, 6.

Study and teaching. Herbaria

Arthur, Joseph Charles, and others.

r 580.7 A78

Handbook of plant dissection. 1886. Holt.

Valuable both as a text-book and for reference, and in spite of its age it is widely and profitably used. Confined to intimate study of a few types.

Coley, May, & Weatherby, C. A.

580.7 C68

Wild flower preservation; a collector's guide. 1915. Stokes.

Satisfactory guide for the beginner. Deals with identification, study and preservation. Revised for use in America by C. A. Weatherby, who has substituted American books and American flowers for the unfamiliar English ones mentioned by Miss Coley.

[**Druce, George Claridge.**]

r 580.7 D84ac

Account of the herbarium of the University of Oxford. 1897. Clarendon Press.

Druce, George Claridge.

r 580.7 D84

Dillenian herbaria; an account of the Dillenian collections in the herbarium of the University of Oxford, with a biographical sketch of Dillenius, selections from his correspondence, notes, &c.; ed. with an introduction by S. H. Vines. 1907. Clarendon Press.

"Bibliography," p.38-57.

581 Physiological botany

Atkinson, George Francis.

r 581 A87

Elementary botany. Ed.3, rev. 1905. Holt.

"A concisely written, modern, finely illustrated work, from the physiological standpoint, with much attention to morphology and ecology and constant practical directions for laboratory study." *Ganong's Teaching botanist, ed. 1.*

Bailey, Liberty Hyde.

581 B16b3

Botany for secondary schools; a guide to the knowledge of the vegetation of the neighborhood. 1913. Macmillan.

"Charmingly written by one who knows a great deal about plants, and who is desirous of having the young people know plants as he knows them." *C. E. Bessey, in Science, 1901.*

Bary, Anton de.

r 581 B28

Comparative anatomy of the vegetative organs of the phanerogams and ferns; tr. and annotated by F. O. Bower and D. H. Scott. 1884. Clarendon Press.

Bibliographical foot-notes.

Bastin, Edson Sunderland.

r 581 B29

College botany, including organography, vegetable histology, vegetable physiology and vegetable taxonomy, with a brief account of the succession of plants in geologic time. Ed.10, rev. 1905. Engelhard.

The same. 1889.....r 581 B29a

Bessey, Charles Edwin, & Bessey, E. A.

581 B46e2

The essentials of college botany. Ed.8, rewritten. 1914. Holt. (American science series; briefer course.)

A guide to beginners. Its principles are, that the true aim of botanical study is not so much to seek the family and proper names of specimens as to ascertain the laws of plant-structure and plant-life; that this can be done only by examining and dissecting the plants themselves; and that it is best to confine the attention to a few leading types, and to take up first the simpler and more easily understood forms.

Bower, Frederick Orpen.

r 581 B66

Course of practical instruction in botany. 1888. Macmillan. (Manuals for students.)

Curtis, Carlton Clarence.

581 C93a

Nature and development of plants. Ed.3, rev. 1914. Holt.

"Capital introduction to vegetable morphology and physiology...A careful examination has shown the treatise to be trustworthy. It is, moreover, interesting, and it should be very useful." *Nation, 1908.*

Ganong, William Francis.

581 G16

The living plant; a description and interpretation of its functions and structure. 1913. Holt. (American nature series.)

Excellent and thorough explanation of the development and activities of growing plants. Adapted to the needs of the beginner in botany.

Goebel, Karl Eberhard.

qr 581 G55

Outlines of classification and special morphology of plants; authorised English translation by H. E. F. Garnsey; rev. by I. B. Balfour. 1887. Clarendon Press.

New edition of Sachs' "Text-book of botany, morphological and physiological," book 2.

Gray, Asa.

r 581 G81

Botanical text-book for colleges, schools and private students, comprising an introduction to structural and physiological botany [and] the principles of systematic botany, with an account of the chief natural families of the vegetable kingdom and notices of the principal useful plants. Ed.2. 1845. Wiley.

Kellerman, William Ashbrook.

r 581 K16

Elements of botany, embracing organography, histology, vegetable physiology, systematic botany and economic botany; arranged for school use or for independent study. 1883. Potter.

Ketchum, Annie Chambers.

r 581 K22

Botany for academies and colleges, consisting of plant development and structure from seaweed to clematis, with a manual of plants, including all the known orders with their representative genera. 1894. Lippincott.

Leavitt, Robert Greenleaf.

r 581 L46

Outlines of botany for the high school laboratory and classroom (based on Gray's "Lessons in botany"); prepared at the request of the Botanical department of Harvard University. 1901. Amer. Book Co.

With this is bound "Manual of botany of the northern United States," by Asa Gray.

Prantl, Karl Anton Eugen.

r 581 P88

Elementary text-book of botany; tr. from the German, rev. by S. H. Vines. 1880. Lippincott.

Schleiden, Matthias Jakob.

r 581 S34

Principles of scientific botany; or, Botany as an inductive science; tr. by Edwin Lankester. 1849. Longman.

Strasburger, Eduard, and others.

581 S89

Text-book of botany; rev. with the eighth German ed. by W. H. Lang. Ed.3. 1908. Macmillan.

"Index of literature," p.691-715.

The same; tr. from the German by H. C. Porter, rev. with the fifth German ed. by W. H. Lang. Ed.2. 1903.....r 581 S89a

"Index of literature," p.627-638.

Vines, Sydney Howard.

r 581 V34

Students' text-book of botany. 1902. Sonnenschein.

Of value to the student at the present date (1916). The literature of botany abounds in references to the works of this author.

Farmer, John Bretland.

581.I F24

Plant life. 1913. Holt. (Home university library of modern knowledge.)

"Bibliography," p.251-252.

Short treatment of problems of plant life, from the point of view of function. Simplified but authoritative.

Green, Joseph Reynolds.

r 581.I G82

Introduction to vegetable physiology. Ed.2. 1907. Blakiston.

One of the most widely known works on this subject.

Haberlandt, Gottlieb Friedrich Johann. 581.1 H11
Physiological plant anatomy; tr. from the 4th German edition by Montagu Drummond. 1914. Macmillan.
Comprehensive, standard work.

Jost, Ludwig. r 581.1 J45
Lectures on plant physiology; authorized English translation by R. J. H. Gibson. 2v. 1907-13. Clarendon Press.
Bibliography at end of each lecture.
v.2 is a supplement showing the changes in the second edition of the original work.

Pfeffer, Wilhelm Friedrich Philipp. r 581.1 P47
Physiology of plants; a treatise upon the metabolism and sources of energy in plants; tr. and ed. by A. J. Ewart. Ed.2, rev. 3v. 1900-06. Clarendon Press.

"Deals with subjects of extreme interest, in which great progress has been made towards a fuller understanding of plants as living organisms sensitive to influences from without, and adapting themselves to their environment...To what has been gathered in its field no better guide can be obtained." *Nature*, 1906.

"Laid the foundation of modern plant physiology." *Preface to Ludwig Jost's "Lectures on plant physiology,"* 1907.

Stevens, William Chase. 581.1 S84
Plant anatomy, from the standpoint of the development and functions of the tissues and handbook of micro-technic. Ed.3, rev. & enl. 1916. Blakiston.

The same. Ed.2, rev. & enl. 1910.....r 581.1 S84

Introduction to plant histology. Gives attention to use of microscope and to chemical reagents used in studying plants.

Shreve, Edith Bellamy. qr 581.116 S56
The daily march of transpiration in a desert perennial. 1914. (Carnegie Institution of Washington. Publication no.194.)

Church, Arthur Harry. qr 581.147 C46
Types of floral mechanism; a selection of diagrams and descriptions of common flowers, arranged as an introduction to the systematic study of angiosperms. v.1. 1908. Clarendon Press.

v.1. Types 1-12 (Jan. to April).

Excellent illustrations of structural details, with moderately technical descriptive text. v.1 comprises 12 types of early spring flowers, forming part of a proposed collection of 100 types.

Harwood, William Sumner. 581.15 H33a
New creations in plant life; an authoritative account of the life and work of Luther Burbank. Ed.2, rev. & enl. 1907. Macmillan.

Luther Burbank has won world-wide fame by his marvelous success in originating new varieties of plants and fruits. This book is a popular and highly eulogistic account of the man, the methods and some of the creations.

Campbell, Douglas Houghton. 581.157 C15
Plant life and evolution. 1911. Holt. (American nature series.)

"A distinct contribution to sound popular science. The author...brings to the subject all the light of recent investigations, and constructs...a satisfactory sketch of the probable sequence in which plants appeared upon our earth." *Nation*, 1912.

Scott, Dukinfield Henry. 581.157 S42
Evolution of plants. 1911. Holt. (Home university library of modern knowledge.)

"Bibliography," p.245-247.

"Masterly résumé of this extremely difficult subject by one of our highest authorities, himself a leading investigator in palaeobotany." *Nature*, 1911.

Ewart, Alfred James. r 581.181 E96

On the physics & physiology of protoplasmic streaming in plants; communicated to the Royal Society by Francis Gotch. 1903. Clarendon Press.

"Under the first heading those phenomena of protoplasmic movement are discussed which can be directly referred to physical and chemical causes, whereas under 'physiology' we deal with those 'vital' phenomena which cannot as yet be thus resolved." *Preface*.

Brannon, Melvin Amos. qr 581.19 B71

Salton sea; the action of Salton sea water on vegetable tissues. 1914. Privately printed.

Thesis for Ph. D., University of Chicago.

Study of specimens submerged for various periods up to five years.

Starches

Griffiths, Waldron. r 581.1931 G89

Principal starches used as food, with a short description of their origin and characters. Ed.2. 1911. Baily.

Chief value is in excellent photomicrographic illustrations.

Reichert, Edward Tyson. qr 581.1931 R29

Differentiation and specificity of starches in relation to genera, species, etc.; stereochemistry applied to protoplasmic processes and products, and as a strictly scientific basis for the classification of plants and animals. 2 pts. in 2v. 1913. (Carnegie Institution of Washington. Publication no.173.)

"Combined production of a physiologist and a crystallographer...By far the most thorough and extensive investigation which has so far been published, and on the basis of their careful studies the authors arrive at broad biological conclusions, which will be of great interest to a wide circle of scientists...Thus we have a means of testing by crystallography the classification of animals, which at present is based almost entirely on morphological characters." *Science*, 1911.

Diseases of plants. Poisonous plants. Weeds

Sorauer, Paul, and others. qr 581.2 S71

Manual of plant diseases; tr. by Frances Dorrance. Ed.3. v.1, pt.1-6. 1914-16. [Record Press.]

v.1. Non-parasitic diseases.

Smith, Erwin Frink. qr 581.21 S64

Bacteria in relation to plant diseases. v.3. 1914. (Carnegie Institution of Washington. Publication no.27.)

v.3. Vascular diseases (continued).

Contains many bibliographies.

For v.1-2 see preceding catalogue, v.6.

Canada—Seed branch. (Department of agriculture.) r 581.259 C16

Weeds and weed seeds, illustrated and described. 1914. (Bulletin no.S-8.)

Georgia, Ada Eljiva.

581.259 G31

Manual of weeds, with descriptions of all of the most pernicious and troublesome plants in the United States and Canada, their habits of growth and distribution, with methods of control, with illustrations by F. S. Mathews. 1914. Macmillan. (Rural manuals.)

"Bibliography," p.559-561.

Pammel, Louis Hermann.

r 581.259 P21

Manual of poisonous plants, chiefly of eastern North America, with brief notes on economic and medicinal plants and numerous illustrations. 1911. Torch Press.

"Bibliography of poisonous plants," by H. S. Kellogg, p.869-918; "Catalogue of the poisonous plants of the world," p.803-861.

"A great compendium of well-organized information." *Botanical gazette*, 1912.

United States—Plant industry bureau.

r 581.259 U25

Principal poisonous plants of the Western stock ranges, by C. D. Marsh. 1914.

Morphology. Habits

Coulter, John Merle, & Chamberlain, C. J.

r 581.4 C83

Morphology of angiosperms. 1903. Appleton.

"Literature cited," p.318-332.

Rusby, Henry Hurd, & Jelliffe, S. E.

r 581.4 R89

Morphology and histology of plants; designed especially as a guide to plant-analysis and classification and as an introduction to pharmacognosy and vegetable physiology. 1899. Privately printed.

Contents: The morphology of plants, by H. H. Rusby.—Plant histology, by S. E. Jelliffe.

Dixon, Royal.

581.5 D64

The human side of plants. 1914. Stokes.

The same.....j 581.5 D64

Popular description of plant mechanism and plant habits.

Fultz, Francis Marion.

j 581.54 F98

The fly-aways and other seed travelers. 1910. Public-school Pub. Co.

Tells about the different kinds of seeds, the fly-aways, sailors, coasters or skaters, jumpers, tramps, swimmers, tumblers, goody seeds and birds' seeds; how they travel and about the journeys they make.

Economic botany

Good, Peter P.

r 581.63 G62

Family flora and materia medica botanica, containing the botanical analysis, natural history and chemical and medical properties and uses of plants; illustrated by colored engravings of original drawings copied from nature. Rev. & enl. ed. 2v. 1845-54. Privately printed.

Series of brief, moderately technical monographs, dealing with habitat, recognition and properties of the more important medicinal plants of the world.

Histology

Cross, Charles Frederick, & Bevan, E. J.

581.8 C89r

Researches on cellulose, 1905-10. v.3. 1912.

Contains bibliographies.

For v.1-2 see preceding catalogue, v.1, 4.

Winton, Andrew Lincoln.

581.8 W79

Microscopy of vegetable foods, with special reference to the detection of adulteration and the diagnosis of mixtures, with the collaboration of Josef Moeller and Kate Barber Winton. Ed.2. 1916. Wiley.

"General bibliography," p.671-674.

Also contains many short bibliographies.

Covers accurately and fully the various vegetable foods, spices, etc., giving methods for their analysis with the microscope.

Geographical distribution of plants

Engler, Adolf, & Drude, Oskar, ed.

qr 581.9 E64

Die vegetation der erde; sammlung pflanzengeographischer monographien. v.1-13. 1896-1915.

v.1. Grundzüge der pflanzenverbreitung auf der iberischen halbinsel, von Moritz Willkomm.

v.2. Grundzüge der pflanzenverbreitung in den Karpathen, von F. Pax. pt.1.

v.3. Grundzüge der pflanzenverbreitung in den Kaukasusländern, von Gustav Radde.

v.4. Die vegetationsverhältnisse der illyrischen länder, von Günther Beck von Managetta.

v.5. Die heide Norddeutschlands und die sich anschliessenden formationen in biologischer betrachtung, bearbeitet von P. Graebner.

v.6. Der hercynische florenbezirk, von Oscar Drude.

v.7. Die pflanzenwelt von West-Australien südlich des wendekreises, von L. Diels.

v.8. Grundzüge der pflanzenverbreitung in Chile, von Karl Reiche.

v.9. Die pflanzenwelt Afrikas, insbesondere seiner tropischen gebiete, von Adolf Engler. pt.1a-c, pt.2, pt.3a.

v.10. Grundzüge der pflanzenverbreitung in den Karpathen, von F. Pax. pt.2.

v.11. Die vegetationsverhältnisse der Balkanländer, von Lujo Adamović.

v.12. Die pflanzenwelt der peruanischen Ande, von A. Weberbauer.

v.13. Phytogeographic survey of North America [in English], by J. W. Harshberger. Contains many bibliographies.

Series of elaborate monographs, some of them very fully illustrated.

Schimper, Andreas Franz Wilhelm.

581.9 S33

Plant-geography upon a physiological basis; the authorized English translation by W. R. Fisher, rev. and ed. by Percy Groom and I. B. Balfour. 1903. Clarendon Press.

"Select literature" at the end of each chapter.

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Popular guide to identification by means of simple key arrangement. Gives drawings of leaves and photographic reproductions of bark.

Harvard University—Arnold arboretum.

qr 016.582 H33

The Bradley bibliography; a guide to the literature of the woody plants of the world published before the beginning of the 20th century; comp. under the direction of C. S. Sargent by Alfred Rehder. v.1-4. 1911-15. (Publications, no.3.)

v.1-2. Dendrology.

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Intended to contain the titles of all publications relating wholly or in part to woody plants, including books, pamphlets, and articles in periodicals, in all languages, published up to the end of 1900. Includes works on taxonomy, morphology, physiology, ecology, the economic productions and uses of woody plants, arboriculture and forestry.

Hooker, Sir Joseph Dalton, & Jackson, B. D. comp.

qr 582 H77a

Index Kewensis; an enumeration of the genera and species of flowering plants, from the time of Linnæus to 1885 inclusive, together with their authors' names, the works in which they were first published, their native countries and their synonyms; compiled at the expense of C. R. Darwin; supplement, 1906-10. v.4. 1913.

For v.1-3 see preceding catalogue, v.4, 6.

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American woods, exhibited by actual specimens, and with explanatory text. v.13. 1913. Privately printed.

Describes their botanical characteristics, habitat, physical properties, uses, etc. Illustrates each by thin veneers showing transverse, radial and tangential sections.

For v.1-12 see preceding catalogue, v.4, 6.

Hough, Romeyn Beck.

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Leaf key to the trees of the northern states and Canada, and a botanical glossary. 1910. Privately printed.

Aims to include all of the generally accepted native and naturalized trees north of the latitude of the northern boundary of North Carolina and east of the Rocky mountains.

Huntington, Annie Oakes.

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Studies of trees in winter; a description of the deciduous trees of northeastern America. 1910. Estes.

A convenient handbook, for field use. By its means even the least observant person may familiarize himself with the more common of our trees in winter.

Illick, Joseph Simon.

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Pennsylvania trees. Rev. ed. 1915. (Pennsylvania—Forestry department. Bulletin no.11, rev.)

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Levison, Jacob Joshua.

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Studies of trees. 1914. Wiley.

Brief guide to identification and care of trees, also to selection and planting for various purposes. Discusses briefly the characteristics of the more important woods. Confined to trees occurring east of the Great lakes and north of Maryland, but does not include all found in this region. Does not contain a key to identification, but is very good in pointing out the distinguishing characteristics of each species.

Lewis, Isaac McKinney.

r 582 L67

Trees of Texas; an illustrated manual of the native and introduced trees of the state. 1915. (Texas University. Bulletin, 1915, no.22.)

Key and brief non-technical guide.

Mathews, Ferdinand Schuyler.

582 M47f

Field book of American trees and shrubs; a concise description of the character and color of species common throughout the United States, with maps showing their general distribution. 1915. Putnam.

Reliable guide, suitable for the beginner. Especially valuable for the author's excellent pen drawings. The colored illustrations are less successful.

Noyes, William.

582 N48

Wood and forest. 1912. Manual Arts Press.

"References" at the end of each chapter; "General bibliography," p.4-8.

Companion volume to author's "Handwork in wood" (684 N48). Deals with identification, distribution and properties of the principal species of American woods; forest enemies and conservation.

Otis, Charles Herbert.

r 582 O31

Michigan trees; a handbook of the native and most important introduced species. 1913. (Michigan University. University bulletin. new ser. v.14, no.16.)

Record, Samuel James.

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Identification of the economic woods of the United States, including a discussion of the structural and physical properties of wood. 1912. Wiley.

Contains numerous references.

Both for students and for users of wood. Key specifically identifies almost 100 woods. Requires in most cases only examination of gross features with a hand lens, but microscopic features are introduced where necessary.

"The key is far more detailed and comprehensive than any other yet devised for American woods." *American forestry*, 1912.

Rogers, Julia Ellen.

582 R61tr

Tree guide; trees east of the Rockies. 1914. Doubleday.

Useful pocket guide for beginners. Has keys to identification and brief descriptions.

Sargent, Charles Sprague, ed.

qr 582 S24t

Trees and shrubs; illustrations of new or little known ligneous plants; prepared chiefly from material at the Arnold arboretum of Harvard University. v.2. 1913. Houghton.

Illustrations are accompanied by brief descriptions. In addition to North American plants, it includes woody plants of other regions, especially those of the northern hemisphere which may be expected to flourish in the gardens of the United States, and those of special commercial or economic importance.

For v.1 see preceding catalogue, v.4.

United States—Forest service.

qr 582 U25

Forest atlas; geographic distribution of North American trees. pt.1. 1913.

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Weed, Clarence Moores.

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Our trees; how to know them, photographs from nature by A. I. Emerson, with a guide to their recognition at any season of the year and notes on their characteristics, distribution and culture by C. M. Weed. [Ed.3.] 1911. Lippincott.

Dicotyledonae. Monocotyledonae

Solereider, Hans.

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Systematic anatomy of the dicotyledons; a handbook for laboratories of pure and applied botany; tr. by L. A. Boodle and F. E. Fritsch, rev. by D. H. Scott. 2v. 1908. Clarendon Press.

v.1. Introduction, polypetalae, gamopetalae.

v.2. Monochlamydeae, addenda, concluding remarks.

"Literature supplement," v.2, p.1169-1172.

Richards, Herbert Maule.

qr 583.471 R39

Acidity and gas interchange in cacti. 1915. (Carnegie Institution of Washington. Publication no.209.)

Francis, Mary Evans.

q 584.9 F86

Book of grasses; an illustrated guide to the common grasses and the most common of the rushes and sedges. 1912. Doubleday.

The same. qr 584.9 F86

Non-technical descriptions and key to identification. Confined to the region east of the Mississippi river from Canada southward to Virginia.

Gymnospermae

Coulter, John Merle, & Chamberlain, C. J.

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Morphology of gymnosperms. 1910. University of Chicago Press.

"Summary of literature cited," p.431-452.

"By far the best 'up-to-date' treatise on gymnosperms, recent and fossil, remarkable for its excellent illustrations." *Scott's Evolution of plants, 1911.*

Coulter, John Merle, & Chamberlain, C. J.

r 585 C83

Morphology of spermatophytes. 1901. Appleton.

"Summary of literature cited," p.180-185.

Highly technical work for advanced students. The best treatise available in English (1916).

Massachusetts—State forester.

r 585.2 M45

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Pamphlet supplementing "Study of trees in our primary schools" (q 582 M45s).

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r 586 B45

Introduction to cryptogamic botany. 1857. Bailliere.

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Clute, Willard Nelson.

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The fern allies of North America north of Mexico. 1905. Stokes.

"Checklist of the species and principal varieties," p.256-266.

Convenient guide for the beginner in identifying the relatives of ferns.

"No book has ever before been published in which one may find untechnical descriptions of our fern allies, nor one in which all the species have been figured...It has been our aim not only to illustrate every species, but to represent them correctly." *Preface.*

Hopkins, Lewis S.

587.3 H78

Ferns of Allegheny county, Pennsylvania; their haunts and habits and something of their folklore. 1914. Pittsburgh. (Botanical Society of Western Pennsylvania. Publication no.3.)

Interesting manual, not too technical for amateur use. Data based wholly on plants in the herbarium of the Carnegie Museum or collected by the writer himself in Allegheny county. Excellent illustrations.

Smith, John, 1798-1888.

r 587.3 S65

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Williams, Benjamin Samuel.

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Select ferns and lycopods, British and exotic, comprising descriptions of 950 choice species and varieties, accompanied by directions for their management in the tropical, temperate and hardy fernery. [Ed.2.] 1873. Privately printed.

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How to know the mosses; a popular guide to the mosses of the northeastern United States, containing keys to genera and short descriptions of species, with special reference to the distinguishing characteristics that are apparent without the aid of a lens. 1916. Houghton.

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Toadstools, mushrooms, fungi, edible and poisonous; 1,000 American fungi, how to select and cook the edible, how to distinguish and avoid the poisonous, full botanic descriptions; revised by C. F. Millspaugh. [Ed.3], rev. 1912. Bobbs.

Comprehensive treatise, with good illustrations in color.

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Author has collected and arranged material on the several hundred species of bacteria that have heretofore been satisfactorily described. Arrangement is for purposes of identification rather than scientific classification.

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 "The stories in this book, which number some hundreds, have been written to amuse and to teach. If they do not amuse you, they will teach you nothing." *Preface.*

Breck, Edward.

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Madden, John, b. 1860.

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McClurg.

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Animals; their relation and use to man; a nature study textbook.

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For grammar school grades. The common domestic animals or well-known species are selected for special study of type forms and suggestions are given for independent observation. This study is supplemented by reading lessons bringing out the relation between the wild and domestic animals of the same order. Well illustrated.

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j 590.7 G21

Wonders of the zoo. 1908. Dodge.

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Hartog, Marcus Manuel—*continued*.

591.16 H33

matter, admirably discursive, and yet possesses a unity of its own... It may be regarded as the epitome of the biological writings of a lifetime. The three features that stand out most prominently are, perhaps, the pronounced neo-Lamarckian tendency, the Spenserian attitude towards biological problems, and the appreciation of the biological writing of the late Samuel Butler." *H. S. Shelton, in Science progress, 1913.*

Embryology. Comparative anatomy

Carnegie Institution of Washington.

qr 591.3 C21

Contributions to embryology. v.1-4 (no.1-13). 1915-16. (Publications, no.221-224.)

Minot, Charles Sedgwick.

qr 591.3 M72

Laboratory text-book of embryology. Ed.2, rev. 1911. Blakiston.

Subject matter is well-chosen and thoroughly reliable. Useful as a work of reference.

Lillie, Frank Rattray.

591.31 L69

Development of the chick; an introduction to embryology. 1908.

Holt.

Literature, p.443-463.

"The best introduction to the problems opened up by the study of embryology is a careful first-hand study of some one species. It is in this sense that the book may serve as an introduction to embryology, if its study is accompanied by careful laboratory work." *Preface.*

Fabre, Jean Henri.

591.341 F11

Life of the caterpillar; tr. by Alexander Teixeira de Mattos. 1916.

Dodd.

Brearley, Harry Chase.

j 591.4 B71

Animal secrets told; a book of "whys." 1911. Stokes.

Explains the causes for the various peculiarities of animals; why some have "front-eyes" and others "side-eyes," why their ears, mouths, tongues, feet, etc. differ; why some have feathers and others scales or shells or quills; why the hare has a winter coat and the squirrel a bushy tail. Illustrations from drawings by the author and from photographs taken in the New York zoological park.

Kingsley, John Sterling.

591.4 K27

Comparative anatomy of vertebrates. 1912. Blakiston.

"Bibliography," p.355-380.

Thorough and well arranged text-book, with considerable attention to histology and embryology.

Habits and behavior of animals

Seton, Ernest Thompson.

591.5 S49

Wild animals at home. 1913. Doubleday.

Contents: The cute coyote.—The prairie-dog and his kin.—Famous furbearers; fox, marten, beaver and otter.—Horns and hoofs and legs of speed.—Bats in the devil's kitchen.—The well-meaning skunk.—Old silver-grizzle, the badger.—The squirrel and his jerky-tail brothers.—The rabbits and their habits.—Ghosts of the campfire.—Sneak-cats, big and small.—Bears of high and low degree.—Appendix: Mammals of Yellowstone park.

The same..... j 591.5 S49

Interesting, sketchy accounts of personal observations and intimate experiences with animals.

Economic zoölogy

Shelford, Victor Ernest.

591.6 S54

Animal communities in temperate America as illustrated in the Chicago region; a study in animal ecology. 1913. University of Chicago Press. (Chicago, Geographic Society. Bulletin no.5.)

"Bibliography," p.325-336.

Studies animal life under a classification based on physical features of the habitat, streams, ponds, forests, etc. Deals with organisms as a whole and with their life processes rather than with the more special physiology of organs. Considers organic response to environment, showing how animals or animal communities adjust their forms and modes of behavior to existing conditions.

Adams, Charles Christopher.

591.607 A21

Guide to the study of animal ecology. 1913. Macmillan.

The greater part of work consists of bibliographies.

Useful source book, primarily educational in aim, and not intended as a treatise on the science of ecology.

Geographical distribution of animals

Scharff, Robert Francis.

591.9 S31

Distribution and origin of life in America. 1912. Macmillan.

"Bibliography," p.437-469.

"The data are presented about as exhaustively as is possible in a work of this size, the opinions of different students are summarized in an unbiased way, the generalizations and data are carefully weighed, and the author's conclusions are clearly expressed ... Many of Dr. Scharff's conclusions will not meet with general acceptance. However ... the summary of data and generalizations can only be of the greatest use and a source of inspiration to students of the American fauna." *Alexander G. Ruthven, in Science, 1912.*

Sinel, Joseph.

r 591.92 S61

Outline of the natural history of our shores, with chapters on collecting and preserving marine specimens, methods of microscopic mounting, etc. and on the marine aquarium. 1906. Sonnenschein.

"List of a few books useful to the beginner," p.345.

Carnegie Institution of Washington—Marine biology, qr 591.926 C21
Department of.

Papers. v.5-8. 1914-15. (Carnegie Institution of Washington. Publication no.182-183, 211-212.)

v.5-6 title reads "Papers from the Tortugas laboratory."

For v.1-4 see preceding catalogue, v.6, under Carnegie Institution of Washington—Tortugas laboratory.

Hornaday, William Temple.

591.97 H79a

American natural history; a foundation of useful knowledge of the higher animals of North America. (Fireside edition). 4v. 1914.

v.1. Mammals.

v.2. Mammals (concluded).—Birds.

v.3. Birds (concluded).

v.4. Reptiles, amphibians and fishes.

Popular, well-illustrated manual, by the director of the New York zoological park. Includes much information concerning animals not found in America.

qr 591.9969 F27

Fauna Hawaiiensis; being the land-fauna of the Hawaiian islands, by various authors. 3v. in 4. 1901-13. Cambridge University Press.

v.1, pt.1-2, 6. Introductory essay on the fauna, by R. C. L. Perkins.—Hymenoptera aculeata, by R. C. L. Perkins and Auguste Forel.—Macrolepidoptera, by E. Meyrick.

v.1, pt.3-5. Hymenoptera parasitica, by W. H. Ashmead.—Vertebrata, by R. C. L. Perkins.—Microlepidoptera, by Lord Walsingham.

v.2. Orthoptera, by R. C. L. Perkins.—Neuroptera, by R. C. L. Perkins.—Coleoptera 1, by D. Sharp and R. C. L. Perkins.—Mollusca, by E. R. Sykes.—Earthworms, by F. E. Beddard.—Entozoa, by A. E. Shipley.—Arachnida, by Eugene Simon.—Crustacea isopoda, by Adrien Dollfus.—Crustacea amphipoda, by T. R. R. Stebbing.—Supplement to Hemiptera, by G. W. Kirkaldy, to Hymenoptera, Orthoptera, Neuroptera and Diptera, by R. C. L. Perkins.

v.3. Diptera, by P. H. Grimshaw.—Diptera (supplement), by P. H. Grimshaw and P. Speiser.—Hemiptera, by G. W. Kirkaldy.—Coleoptera 2, by D. Sharp.—Thysanura, by F. Silvestri.—Collembola, by G. H. Carpenter.—Mallophaga, by V. L. Kellogg and B. L. Chapman.—Myriopoda, by F. Silvestri.—Arachnida (supplement), by E. Simon.—Macrolepidoptera (supplement), by E. Meyrick.—Coleoptera 3, by D. Sharp and Hugh Scott.—Coleoptera 4, by R. C. L. Perkins [and others].—Strepsiptera, by R. C. L. Perkins.—Thysanoptera, by R. S. Bagnall.—Acarina, by N. D. F. Pearce.

Results of the explorations instituted by the joint committee appointed by the Royal Society of London and the British Association for the Advancement of Science, ed. by David Sharp.

592-595 Invertebrates

Duncan, F. Martin.

j 592 D89

The seashore; a book for young people. [1912.] Stokes.

Describes the strange and wonderful forms of plant and animal life found along the seashore and in the deep rock pools. There are the different kinds of seaweeds, the jellyfish, the shell dwellers, the starfish, the flower-like anemones, the nautilus, shrimps, barnacles, crabs, lobsters and others. Tells also how to make and stock an aquarium and gives suggestions for the necessary equipment for collecting. Illustrations from photographs by the author.

Siebold, Carl Theodor Ernst von.

r 592 S57

Anatomy of the invertebrata; tr. from the German with additions and notes by W. I. Burnett. 1874. Campbell.

Protozoans. Radiates

Calkins, Gary Nathan.

593.1 C13p

Protozoölogy. 1909. Lea.

"Bibliography," p.313-335.

"Purpose [is]...to discuss some of the old and some of the new problems in biology as illustrated by the lowest forms of animal life, the protozoa...Does not aim at being an exhaustive treatise." *Preface*.

Minchin, Edward Alfred.

593.1 M72

Introduction to the study of the protozoa, with special reference to the parasitic forms. 1912. Arnold.

"Bibliography," p.475-504.

Requires some knowledge of general biology. Defines position of the protozoa and presents a systematic classification and study of the various types.

Chapman, Frederick.

r 593.12 C36

The foraminifera; an introduction to the study of the protozoa. 1902. Longmans.

"Bibliographical lists," p.327-345.

United States—National museum. qr 593.71 U25

American hydroids. pt.3. 1915. (Special bulletin no.4.)

pt.3. The campanulariæ and the bonneviellidæ, by C. C. Nutting.

For pt.1-2 see preceding catalogue, v.1, 4.

Mayer, Alfred Goldsborough. qr 593.8 M53

Ctenophores of the Atlantic coast of North America. 1912. (Carnegie Institution of Washington. Publication no.162.)

Author is (1912) director of the Department of marine biology, Carnegie Institution of Washington. This research was begun in 1892 at the suggestion of Prof. Alexander Agassiz.

Mollusks

Binney, William Greene. r 590.5 H33 v.4, 11

The terrestrial air-breathing mollusks of the United States, and the adjacent territories of North America; ed. by A. A. Gould. v.5. 1883. (In Harvard University—Museum of comparative zoölogy. Bulletin, v.4; v.11, no.8.)

For v.1-4 see preceding catalogue, v.1 under Binney, Amos.

Articulates

Leeches of Minnesota. 3 pts. in iv. 1912. (Minnesota—Geological and natural history survey. Zoological series, no.5.) qr 595.15 L52

Contents: General account of the habits and structure of leeches, by H. F. Nachtrieb.—Anatomy of placobdella parasitica, by E. E. Hemingway.—Classification of the leeches of Minnesota, by J. P. Moore.

Calman, William Thomas. 595.3 C13

Life of crustacea. [1911.] Methuen.

"Books of reference," p.924-928.

Popular treatment by an authority on the subject.

"In every way Dr. Calman's book is a success; it is as instructive as it is interesting, as careful as it is picturesque. It is an admirable introduction not merely to Crustacea but to natural history." *Nature*, 1911.

Duncan, F. Martin, & Duncan, L. T. j 595.3 D89

The lobster & his relations. 1913. Frowde. (Wonders of the sea.)

Includes crabs, shrimps, prawns and barnacles. Well illustrated.

Comstock, John Henry. q 595.4 C73

The spider book; a manual for the study of the spiders and their near relatives, the scorpions, pseudoscorpions, whip-scorpions, harvestmen and other members of the class Arachnida, found in America north of Mexico, with analytical keys for their classification and popular accounts of their habits. 1912. Doubleday.

"Bibliography," p.701-707.

Most comprehensive and best general book on North American spiders (1912).

Fabre, Jean Henri. 595.4 F11

Life of the spider; tr. by Alexander Teixeira de Mattos, with a preface by Maurice Maeterlinck. 1913. Dodd.

Author is a French naturalist who has observed, rather than studied, spiders. Book is interesting in style and the language non-technical.

Insects

Candèze, Ernest Charles Auguste.

j 595.7 C17

Adventures of Grillo; or, The cricket who would be king; tr. and ed. by M. L. Baum; illustrations after Renard by H. N. Baum. 1912. Ginn.

Grillo, who tells his own story, meets a glow-worm, an ant and other insects in his travels and has many strange adventures. Author was a Belgian entomologist and writer on insect life. This version of the story is from an Italian translation "which seemed especially amusing because of the pompous dignity of the language used by the hero."

Preface.

Humorous illustrations in black and white.

Duncan, F. Martin.

595.7 D89

Our insect friends and foes. [1911.] Methuen.

Studies and describes insects of economic importance. Clear and accurate in statement.

Duncan, F. Martin, & Duncan, L. T.

j 595.7 D89

Insect life in pond and stream. [1914.] Frowde. (Wonders of insect life.)

Partial contents: Wee water folk.—Some odd insects.—Water-beetles great and small.—The dragon of the pool.—The "quick-winged gnat."—Flies and their "water babies."—The wise caddis-worm.

Colored pictures and others in black and white.

Fabre, Jean Henri.

595.7 F115

Social life in the insect world; tr. by Bernard Miall. 1912. Unwin.

"Should be welcomed by all lovers of nature, for in Fabre's writings we have combined keenness of observation and interpretation, a genial philosophy and a polished and fascinating style." *Nation*, 1912.

Folsom, Justus Watson.

595.7 F73

Entomology, with special reference to its biological and economic aspects. Ed.2, rev. 1913. Blakiston.

"Literature," p.339-386.

Omits details of classification and habits and general relations. Discusses anatomy and physiology, embryological development, color and coloration, relations to plants, other animals, to man and to each other.

"A book for those who...wish to have at hand a volume of reference on general entomology which gives in brief and authentic and sufficiently popular form the latest results of the science." *Nation*, 1906.

Jaeger, Benedict.

r 595.7 J14a

Life of North American insects [written with the assistance of] H. C. Preston. [Enl. ed.] 1864. Harper.

Kellogg, Vernon Lyman.

q 595.7 K16

American insects. Ed.2, rev. 1908. Holt. (American nature series.)

"Readable and profusely illustrated, it gives a great amount of information about the insects of this country, in such a manner that it is available to any intelligent person." *T. D. A. Cockerell, in the Dial*, 1905.

Schwartz, Julia Augusta.

j 595.7 S39

Grasshopper Green's garden; the story of some wonderful little lives; a nature reader for elementary schools. 1910. Little.

Contents: The lucky little grasshopper.—The adventures of an earthworm.—Mischievous Madam Mosquito.—The most beautiful one in the garden.—The untidy fly.—The spider who would a-hunting go.—This is the house the ant built.—How doth the little busy bee.

r 595-7 Z43

Zeitschrift für wissenschaftliche insektenbiologie [monthly], 1912. v.17. 1912.

Continuation of "Allgemeine zeitschrift für entomologie."

Thysanura

Guthrie, Joseph Edward.

r 595-713 G98

Collembola of Minnesota. 1903. (Minnesota—Geological and natural history survey. Zoological series, no.4.)

"List of publications consulted," p.16-20.

Diptera

Coblentz, William Weber.

qr 595-77 C63

A physical study of the firefly. 1912. (Carnegie Institution of Washington. Publication no.164.)

"Bibliography," p.47.

Brief discussion of light emission and general habits of the firefly. A record of careful investigation. Suggestive but inconclusive.

Fabre, Jean Henri.

595-77 F11

Life of the fly, with which are interspersed some chapters of autobiography; tr. by Alexander Teixeira de Mattos. 1913. Dodd.

Contents: The harmas. — The Anthrax. — Another prober (perforator). — Larval dimorphism. — Heredity. — My schooling. — The pond. — The caddis-worm. — The green-bottles. — The grey flesh-flies. — The bumble-bee fly. — Mathematical memories: Newton's binomial theorem; My little table. — The bluebottle: The laying; The grub. — A parasite of the maggot. — Recollections of childhood. — Insects and mushrooms. — A memorable lesson. — Industrial chemistry.

"M. Fabre is probably [here] seen at his best, both as naturalist and individual. The autobiographical chapters reveal the man, his domestic struggles and his mental victories, while we discover that this inimitable entomological observer is also a self-made and almost self-taught mathematician and chemist... Much as the naturalist will prize the information gathered relating to many insects... this volume... will often escape from the scientific bookshelf to the warmer atmosphere of the library of good books... The translator has caught the spirit of the book." *Athenaum*, 1913.

Howard, Leland Ossian, and others.

qr 595-771 H84

Mosquitoes of North and Central America and the West Indies. v.1-3. 1912-15. (Carnegie Institution of Washington. Publication no.159.)

v.1. A general consideration of mosquitoes, their habits and their relations to the human species.

v.2. Plates.

v.3. Systematic description. pt.1.

"Bibliography," v.1, p.451-488.

Monumental work, embodying the results of the most extensive study yet attempted. Includes full consideration of economic problems; loss from mosquitoes, and methods of control.

Lepidoptera

Furneaux, William S.

r 595-78 F99

Butterflies and moths (British). 1894. Longmans.

Maynard, Charles Johnson.

r 595-78 M53

Manual of North American butterflies. 1891. De Wolfe.

Packard, Alpheus Spring.

qr 506 N15

Monograph of the bombycine moths of America north of Mexico, including their transformations and origin of the larval markings and armature. pt.3. 1914. (In National Academy of Sciences. Memoirs, v.12.)

pt.3. Families ceratocampidæ (exclusive of ceratocampinæ), saturnidæ, hemileucidæ and brahmæidæ.

For pt.1-2 see preceding catalogue, v.1, 4.

Hymenoptera

Fabre, Jean Henri.

595.79 F11b

Bramble-bees and others; tr. by Alexander Teixeira de Mattos. 1915. Dodd.

"In this volume I have collected all the essays on Wild Bees scattered through the *Souvenirs entomologiques*, with the exception of those on the Mason-bees, which form the contents of a separate volume bearing that title." *Translator's note*.

Fabre, Jean Henri.

595.79 F11

The mason-bees; tr. by Alexander Teixeira de Mattos. 1914. Dodd.

Contents: The mason-bees.—Experiments.—Exchanging the nests.—More enquiries into mason-bees.—The story of my cats.—The red ants.—Some reflections upon insect psychology.—Parasites.—The theory of parasitism.—The tribulations of the mason-bee.—The Leucospes.

Morley, Margaret Warner.

j 595.79 M91w

Will o' the wasps. 1913. McClurg.

Uncle Will and little Theodore watch hornets, yellow-jackets and other wasps, learning about their appearance and habits and the way they build their nests. Conversational style.

Sladen, Frederick William Lambert.

595.79 S63

The humble-bee; its life-history and how to domesticate it, with descriptions of all the British species of *Bombus* and *Psithyrus*. 1912. Macmillan.

"Will be more than welcome...not only because it is written by an eminent authority on the honey bee, but because it is one of those rare nature books that are the mature fruit of a life-long interest and occupation." *Science*, 1913.

Fabre, Jean Henri.

595.798 F11

The hunting wasps; tr. by Alexandre Teixeira de Mattos. 1915. Dodd.

596-599 Vertebrates

Patten, William, b. 1861.

q 596 P31

The evolution of the vertebrates and their kin. 1912. Blakiston.

"List of the author's papers concerning the evolution of the vertebrates," p.20-21.

Comprehensive and valuable study of their origin and development.

"We have shown...that the great trunk line of animal evolution is the vertebrate-ostracoderm-anthropod-coelenterate stock...For the first time [this fact] opens to us the great creative period in the evolution of vertebrates; lays before us in detail the successive stages in the upbuilding of their physical structure and functional organization; reveals the important factors that create and control the process, and the critical events incident to its consummation." *Summary and conclusion*.

United States—Biological survey bureau.

r 596 U25

Bulletin. no.2-3. 1888-93.

no.2. Report on bird migration in the Mississippi valley in the years 1884 and 1885, by W. W. Cooke.

no.3. The hawks and fowls of the United States in their relation to agriculture, by A. K. Fisher.

Publication discontinued with no.45.

For no.1, 5-45 see preceding catalogue, v.1.

Fishes

Cunningham, Joseph Thomas, ed.

597 C92

Reptiles, amphibia, fishes and lower chordata, by Richard Lydekker and others. [1912.] Methuen. (Animal life; an evolutionary natural history.)

"Chief claim to merit...is the treatment...not from the point of view of species but from that of habits. The result of this new departure is, despite some mistakes, a useful and instructive treatise." *Nature*, 1912.

Duncan, F. Martin, & Duncan, L. T.

j 597 D89

Life in the deep sea. 1913. Frowde. (Wonders of the sea.)

Short chapters on different kinds of fishes, whales and seals. Well illustrated.

Wright, Albert Hazen.

qr 597.8 W93

North American Anura; life-histories of the Anura of Ithaca, New York. 1914. (Carnegie Institution of Washington. Publication no.197.)

Intimate study of the habits of the common toads and frogs.

Reptiles

Case, Ermine Cowles.

qr 598.11 C25

Revision of the cotylosauria of North America. 1911. (Carnegie Institution of Washington. Publication no.145.)

"References," p.119-121.

"This paper is the second of the series upon the vertebrate fauna of the Permian or Permo-Carboniferous beds of North America. The first, 'A Revision of the pelycosauria of North America' appeared...in 1907. The third, 'A Revision of the amphibia and pisces of the Permian of North America' will follow shortly." *Preface*.

Birds

The Auk; index, v.18-27, 1901-10.

r 598.2 A92

For earlier index and for volumes of magazine see preceding catalogue, v.1, 6.

Baynes, Ernest Harold.

598.2 B33

Wild bird guests; how to entertain them, with chapters on the destruction of birds, their economic and æsthetic values, suggestions for dealing with their enemies and on the organization and management of bird clubs. 1915. Dutton.

"Principal books consulted," p.312-314.

r 598.2 B488

Bird-lore; an illustrated bi-monthly magazine devoted to the study and protection of birds; index, v.1-15, Feb. 1899-1913.

For volumes of magazine see preceding catalogue, v.1.

- Chapman, Frank Michler.** r 598.2 C36
 Color key to North American birds. Rev. ed. 1912. Appleton.
 "Faunal bibliography," p.305-331.
 Systematic list of the birds, with sketches showing their characteristics and colors.
 Intended to enable their identification in the field.
- Chapman, Frank Michler.** 598.2 C36h2
 Handbook of birds of eastern North America, with introductory chapters on the study of birds in nature. Rev. ed. 1912. Appleton.
 "Bibliographical appendix," p.501-515.
 "Exhaustive manual of the species of birds to be found in the area designated. Useful to the student of ornithology studying the bird in the hand, as well as to the bird-lover who wishes to 'name the birds without a gun.'" *Olive Thorne Miller.*
- Dearborn, Ned.** j 598.2 D34
 Bird houses and how to build them. 1914. (United States—Agriculture, Department of. Farmers' bulletin no.609.)
The same. 1914. (In United States—Agriculture, Department of. Farmers' bulletin no.609.).....r 630.6 U2534 no.609
 Very practical. Gives designs and working drawings.
- De Groat, Herman C.** qj 598.2 D38
 Bird studies for home and school; 60 common birds, their habits and haunts. 1911. Privately printed.
 Full-page colored pictures, with brief descriptions.
- Forbush, Edward Howe.** qr 598.2 F75
 History of the game birds, wild-fowl and shore birds of Massachusetts and adjacent states; including those used for food which have disappeared since the settlement of the country and those which are now hunted for food or sport, also the means for conserving those still in existence. [1912.]
 Issued by the Massachusetts state board of agriculture.
 "Published with the intention, first, to show the former abundance of resident and migratory game birds in America and their subsequent decrease in numbers; second, to furnish...the means of identifying game birds...and third, to demonstrate how these birds may be conserved." *Preface.*
- Hudson, William Henry, C. M. Z. S.** 598.2 H88
 Birds and man. [Rev. & enl. ed.] 1915. Duckworth.
 Pleasing account of bird life in England.
- r 598.2 I12
The Ibis; a quarterly journal of ornithology; index of genera and species referred to, and an index to the plates, v.37-54, 1895-1912.
 For general indexes and for volumes of magazine see preceding catalogue, v.1, 4.
- Job, Herbert Keightley.** 598.2 J33w
 Wild wings; adventures of a camera-hunter among the larger wild birds of North America on sea and land, with an introductory letter by Theodore Roosevelt. 1905. Houghton.
 Attractive volume, owing much of its interest to the numerous photographs of birds in flight and at rest.
- Keyser, Leander Sylvester.** r 598.2 K23
 Our bird comrades. 1907. Rand.
 Popular book, with some good colored plates.

Porter, Mrs Gene (Stratton). 598.2 P83

What I have done with birds; character studies of native American birds which I succeeded in photographing, with the story of my experiences in obtaining their pictures. 1907. Bobbs.

Reed, Chester Albert. q 598.2 R28bi

Bird book; illustrating in natural colors more than 700 North American birds, also several hundred photographs of their nests and eggs. 1915. Doubleday.

Approximately complete for North American birds, arranged according to American Ornithologists' Union numbers. Includes more species than his "Birds of eastern North America," from which many of the illustrations are taken. Pictures of eggs, in monotint, are mainly from his "North American birds eggs."

Reed, Chester Albert. 598.2 R28b

Birds of eastern North America, with colored illustrations of every species common to the United States and Canada from the Atlantic coast to the Rockies. 1912. Doubleday.

Elaboration of the important features of bird identification found in author's smaller books "Bird guide—land birds" and "Bird guide—water birds." Noteworthy for the numerous illustrations from water-color paintings of birds.

Roberts, A. J. R. r 598.2 R53

The bird book. 1903. Lane.

"List of British birds," p.124-129.

South Australia—Crown lands, Commissioner of. qr 598.2 S72

Protected native birds of South Australia; comp. by T. Duffield, introduction and descriptions by A. G. Edquist. 1910. (South Australia—Intelligence department. Special bulletin.)

Strecker, John Kern. r 598.2 S91

Birds of Texas; an annotated check-list. 1912. (Baylor University. Bulletin, v.15, no.1.)

Authorities, p.5-6.

List of more than 500 species, with brief notes.

Torrey, Bradford. 598.2 T63fi

Field-days in California. 1913. Houghton.

Essays dealing mainly with bird life in California.

"By no means a superfluous addition to Mr. Torrey's work; though inferior to some of his earlier books in firmness of style, it is at the same time clearly superior in vivacity and mellow wisdom." *Nation*, 1913.

United States—Agriculture, Department of. 598.2 U25

Fifty common birds of farm and orchard. 1913. (United States—Agriculture, Department of. Farmers' bulletin no.513.)

The same. 1913. (In United States—Agriculture, Department of. Farmers' bulletin no.513.).....r 630.6 U2534

Walker, Margaret Coulson. 598.2 W17

Bird legend and life. 1908. Baker.

The same......j 598.2 W17b

"Believing that bird lovers generally will be interested in the literary history of these objects of their affection, the author has endeavored to get together the most important avian legends and superstitions and also to discover in them evidences of apparent truth." *Foreword.*

Well illustrated. Describes intimately and from personal observation the life and habits of 11 well known birds.

Walker, Margaret Coulson.

j 598.2 W17

Our birds and their nestlings. 1904. Amer. Book Co.

Contents: The coming of the birds.—The bluebird.—The robin.—The song sparrow.—The Baltimore oriole.—The redwinged blackbird.—The house wren.—The children of a crow.—The redheaded woodpecker.—A castle in the air (kingbirds).—The bobolink.—The bobwhite.—The blue jay.—The humming bird.—Unnatural orphans (cowbirds).—The brown thrush or thrasher.—The barn swallow.—The waxwing or cedar bird.—The catbird.—The scarlet tanager.—The American goldfinch.—The flicker or golden-winged woodpecker.

Includes poems and legends. Appendix gives descriptions of birds, nests and eggs; also the song, range and food of each bird. Fourteen colored pictures and many other illustrations from photographs.

Weed, Clarence Moores, comp.

j 598.2 W42

Bird life stories; comp. from the writings of Audubon, Bendire, Nuttall and Wilson. v.1. 1904. Rand.

Short accounts of the appearance and habits of the bluebird, robin, chickadee and other common birds. Selections are from authors noted for the interest with which they studied bird life. Colored plates.

Levick, George Murray.

598.44 L66

Antarctic penguins; a study of their social habits. 1914. McBride.

Intimate study of the Adélie penguin, with remarkably fine illustrations. Contains also brief notes on McCormick's skua gull and the emperor penguin.

Mammals

Craig, Hugh, ed.

qr 599 C86

Animal kingdom; based upon the writings of the eminent naturalists, Audubon, Wallace, Brehm, Wood and others. 2v. 1897. Johnson.

Cram, William Everett.

j 599 C86m

More little beasts of field and wood. 1912. Small.

Deer, lynxes, rabbits, woodchucks, chipmunks, raccoons, porcupines, moles and bats are among the animals whose ways are described.

Knight, Charles Robert.

r 599 K34

Animals of the world, for young people, with an introduction by Tudor Jenks. 1908. Stokes.

"A brief bibliography," pref. p.7.

Roosevelt, Theodore, & Heller, Edmund.

599 R68

Life-histories of African game animals. 2v. 1914. Scribner.

"Bibliography of east equatorial Africa," v.2, p.759-774.

"The present treatise is a faithful account of what we have ourselves observed; it sets forth much of what is now known; but its real value must lie in its being treated primarily as a suggestion of what is still open for discovery in this vast field of animal psychology and adjustment to environment." *Preface.*

Mills, Enos Abijah.

599.3 M69

In beaver world. 1913. Houghton.

"Bibliographical note," p.223.

Essays describing the habits of the beaver. Author has been an observer of beaver life for many years and writes in a clear and interesting style.

Eardley-Wilmot, Sir Sainthill.

599.6 E17

Life of an elephant. 1912. Arnold.

Imaginative sketch of the life and career of a fine Indian male elephant, based on author's extensive personal knowledge of forest conditions and the habits of the elephant.

Castle, William Ernest, & Phillips, J. C.

qr 599.7 C27p

Piebald rats and selection; an experimental test of the effectiveness of selection and of the theory of gametic purity in Mendelian crosses. 1914. (Carnegie Institution of Washington. Publication no.195.)

"Bibliography," p.31.

Eardley-Wilmot, Sir Sainthill.

599.7 E17

Life of a tiger. 1911. Arnold.

Biography of a tiger, incidentally telling a good deal about other animals and giving a good idea of the wild life of the Indian jungle.

Osgood, Wilfred Hudson, and others.

qr 599.75 O29

Fur seals and other life of the Pribilof islands, Alaska, in 1914. 1915. U. S. Government. (United States. 63d cong. 3d sess. Senate. Doc. no.980, v.6.)

"Bibliography," by R. M. MacDonald, p.149-167.

Useful Arts

Bibliography

Case School of Applied Science, Cleveland. r 016.6 C25

List of periodicals that may be found in the department libraries.
[1914.]

Columbia University, New York—Teachers college. r 016.607 C72

Annotated list of books relating to industrial arts and industrial education, prepared by the School of industrial arts. 1911. (Technical education bulletin no.6.)

Includes machine and structural design and work in wood, metal, clay, paper and textiles.

Dunod, H. & Pinat, E. pub. qr 016.6 D92

Les nouveaux livres scientifiques et industriels; bibliographie des ouvrages publiés en France du 1er juillet 1907 au 30 juin 1912. v.2. 1913.
For v.1 see preceding catalogue, v.6.

Indiana—State library. r 016.6 I24

Report of the committee on a list of the scientific and technical serials in the libraries of the state of Indiana [and a list of the serials. 1913]

Reprint from Report of the Indiana Academy of Science for 1913.

John Crerar Library, Chicago. qr 016.609 J35

List of books on the history of industry and industrial arts, Jan. 1915; prepared by A. G. S. Josephson. 1915.

Newcastle-upon-Tyne, England—Public libraries. qr 016.6 N26a

Catalogue of books on the useful arts in the Central libraries, 1903-14; supplement, ed. by Basil Anderton. 1914.

For volume which this supplements see preceding catalogue, v.4.

United Engineering Society. qr 016.6 U25

Catalogue of technical periodicals, libraries in the city of New York and vicinity; compiled and edited by A. J. Gates, with the co-operation of a committee of the New York Library Club. 1915. (Library of the engineering societies bibliographical contributions.)

"Reference works consulted," p.15.

Walther, Carl, comp. qr 016.6 W19

Bibliographie der an den deutschen technischen hochschulen erschienenen doktor-ingenieur-dissertationen in sachlicher anordnung, 1900 bis 1910. 1913.

603 Encyclopedias. Receipts

- Brannt, William Theodore, ed.** r 603 B71m
 Metal worker's handy-book of receipts and processes. 1891. Baird.
 Practical work on properties of metals and alloys, casting, tempering and surface treatment.
- Chaplet, A. comp.** r 603 C36
 Les recettes de l'atelier. 1913. (Recettes et procédés utiles de "La Nature.")
 Formulas and receipts dealing with ink, paper, glue, cement, electrical apparatus, and working of metal, wood, ivory, bone, leather and celluloid.
- Chaplet, A. comp.** r 603 C36r
 Les recettes de la maison. 1913. (Recettes et procédés utiles de "La Nature.")
 Collection of household receipts, covering a wide field—food, drinks, accidents and emergencies, cleaning, dyeing, repairing, house heating and lighting, and materials and methods of dwelling construction and furnishing.
- Dodd, George.** r 603 D66
 British manufactures. v.1-4, in 2. 1844-45. Knight.
 v.1-2. Chemical.—Textile manufactures.
 v.3-4. Metals.—Marble and stone work.—Glass-manufacture.—Carpet-manufacture.—Floor-cloth manufacture.—Piano-forte manufacture.—Watch and clock manufacture.—Cabinet-manufacture.
- Drake, J. A.** r 603 D78
 Practical mechanic; comprising a clear exposition of the principles and practice of mechanism, with their application to the industrial arts. 1879. Lukenbach.
- Hopkins, Albert Allis, & Bond, A. R. comp.** r 603 H78a2
 Scientific American reference book; edition of 1914. 1914. Munn.
 The same; edition of 1913. 1913.....r 603 H78a
Contents: STATISTICAL INFORMATION: Population and social statistics.—Farms, foods and forests.— Mines and quarries.— Manufactures.— Commerce.— Mercantile marine.—Railroads.—The Panama canal.—Telegraphs and cables.—Wireless telegraphy.—Telephone statistics of the world.—Post office affairs.—Patents, trade-marks and copyrights.—Armies of the world.—Navies of the world.—Aviation.—SCIENTIFIC INFORMATION: Chemistry.—Astronomy and time.—Meteorology.—Machine elements and mechanical movements.—Geometrical constructions.—Weights and measures.
- r 603 K343
Knight's cyclopædia of the industry of all nations, 1851 [ed. by George Dodd. 1851]. Knight.
- Lueger, Otto, comp.** qr 603 L97
 Lexikon der gesamten technik und ihrer hilfswissenschaften. Ed.2. v.9. 1914. Deutsche Verlagsanstalt.
 v.9. Ergänzungsband.
 For earlier volumes see preceding catalogue, v.4, 6.
- Pilkington, James.** r 603 P58
 Artist's guide and mechanic's own book; embracing the portion of chemistry applicable to the mechanic arts. 1847. Sanborn.

Smith, Joseph Russell. 603 S65

Industrial and commercial geography. 1913. Holt.

The same.....r 603 S65

"Bibliography," p.9-11, and at the end of each chapter.

Comprehensive descriptive and statistical work, valuable for reference. Detailed discussion of economic activities of man, grouped by industries and not by regions.

Willich, Anthony Florian Madinger, *comp.* r 603 W75

Domestic encyclopædia; or, A dictionary of facts and useful knowledge, comprehending a concise view of the latest discoveries, inventions and improvements, chiefly applicable to rural and domestic economy; first American edition with additions, applicable to the present [1804] situation of the United States, by James Mease. v.2. 1804. Birch.

v.2. Carp-Fir.

604 Essays

Husband, Joseph Biegler. 604 H95

America at work. 1915. Houghton.

Contents: Semaphore.—The narrow house.—Vulcan.—Leviathan.—High tension.—Fire-damp.—Skyscraper.—Dynamite.—The mills.—Telephone.—From a thousand hills.—Concrete.

Brief essays depicting vividly the prominent features of typical American industries. Not intended as a description of industrial and manufacturing methods, but characterized by an alert and sympathetic appreciation of the human element in modern industry.

Williams, Archibald. j 604 W74h

How to make things; describing in simple language the making of objects of more or less useful character. 1913. Sully.

Instructions for carpentry work, simple scientific experiments, the making of electrical apparatus, model engines, pumps and steam turbines, a model aeroplane, etc. Only a moderate outlay for tools is required.

605 Periodicals

r 605 T264

Illustrated world; monthly, Sept. 1915–date. v.24–date. 1915–date.

For v.1-23 see preceding catalogue, v.4, under title "Technical world."

r 605 M78

Le Mois scientifique et industriel; revue internationale d'information mensuelle, juillet 1906–janvier 1911. v.8, no.83–v.13, no.137. 1906–11.

v.8, no.87, novembre 1906; v.11, no.118, 123, juin, novembre 1909; v.12, no.125, 136, janvier, décembre 1910, wanting.

Supplements entitled "Le Mois minier et métallurgique," and "Le Mois chimique et électrochimique" are issued with each number.

Wood, Sir Henry Trueman Wright. r 605.09 W85

History of the Royal Society of Arts, with a preface by Lord Sanderson. 1913. Murray.

The activities and interests of this society have been so diversified that its history gives a fairly good outline of general scientific and industrial development.

606 Expositions

Chicago, World's Columbian Exposition, 1893

Chicago freie presse.

qr 606 C43v

Die verschwundene weisse stadt; eine sammlung photographischer aufnahmen auf der Columbischen welt-ausstellung. 1893-94. Peacock Pub. Co.

Issued as a supplement to the "Chicago freie presse," Jan. 3, 1893-May 9, 1894.

Chicago, World's Columbian Exposition, 1893.

qr 606 C43col

[Columbian portfolio of photographs of the World's fair. 1893. Jones.]

Spain—Comisión, Exposición universal de Chicago, 1893.

r 606 C43s

Catálogo de la sección española. 1893.

Philadelphia, Centennial Exhibition, 1876

France—Ministère des travaux publics.

r 606 P49fr

Notices on the models, charts and drawings relating to the works of the "Ponts et chaussées" and the mines, collected by order of the Ministry of public works [tr. from the French by David Coales]. 1876.

These models, charts and drawings were exhibited at the Centennial Exhibition in Philadelphia in 1876.

St. Louis, Louisiana Purchase Exposition, 1904

St. Louis, Louisiana Purchase Exposition, 1904.

r 606 S14s

Sights, scenes and wonders at the World's fair; official book of views of the Louisiana Purchase Exposition; reproduced from Goerz lens photographs. 1904.

San Diego, Cal., Panama-California Exposition, 1915

Neuhaus, Karl Eugen.

b 606 S194n

San Diego garden fair; personal impressions of the architecture, sculpture, horticulture, color scheme & other aesthetic aspects of the Panama California International Exposition. 1916. Elder.

"Biographical notes," p.79.

Winslow, Carleton Monroe.

b 606 S194w

Architecture and the gardens of the San Diego exposition; a pictorial survey of the aesthetic features of the Panama-California International Exposition, with an essay by C. S. Stein, introduction by B. G. Goodhue. 1916. Elder.

San Francisco, Panama-Pacific International Exposition, 1915

b 606 S195a

Architecture and landscape gardening of the exposition; a pictorial survey of the most beautiful of the architectural compositions of the Panama-Pacific International Exposition; described by M. W. Raymond and others, with an introduction by L. C. Mullgardt. [Ed.2, rev.] 1915. Elder.

Barry, John Daniel.

606 S19b

The city of domes; a walk with an architect about the courts and palaces of the Panama-Pacific International Exposition, with a discussion of its architecture, its sculpture, its mural decorations, its coloring and its lighting, preceded by a history of its growth. 1915. Newbegin.

qr 606 S195i

International fair illustrated [monthly], Dec. 1911-Jan. 1913. v.1, no.1-7. 1911-13.

Devoted to the Panama-Pacific International Exposition held at San Francisco, 1915.

James, Mrs Juliet Helena (Lumbard).

606 S19j

Palaces and courts of the exposition [at San Francisco]; a handbook of the architecture, sculpture and mural paintings, with special reference to the symbolism. 1915. California Book Co.

Illustrated.

r 606 S195l

Legacy of the exposition; interpretation of the intellectual and moral heritage left to mankind by the world celebration at San Francisco in 1915. 1916.

Louisiana—Panama-Pacific exposition commission.

r 606 S195lo

Louisiana at the Panama-Pacific International Exposition, San Francisco, Cal.; report of the Louisiana commission. 1916.

Macomber, Benjamin.

606 S19m

The jewel city; its planning and achievement, its architecture, sculpture, symbolism and music, its gardens, palaces and exhibits. 1915. Williams. (Panama-Pacific International Exposition.)

"Bibliography," p.200.

Neuhaus, Karl Eugen.

606 S19n

The art of the exposition; personal impressions of the architecture, sculpture, mural decorations, color scheme & other aesthetic aspects of the Panama-Pacific International Exposition. 1915. Elder.

"Index to sculpture," p.75-81; "Mural decorations," p.82-83; "Biographical notes," p.84-89.

Illustrated.

San Francisco, Panama-Pacific International Exposition, 1915.

r 606 S195o

Official catalogue of exhibitors. Rev. ed. [1915.] Wahlgreen.

Contents: Official catalogue of the Department of fine arts.—Education and social economy.—Liberal arts.—Manufactures and varied industries.—Machinery.—Official catalogue, palace of transportation exhibits.—Agriculture and food products.—Horticulture and floriculture.—Mines and metallurgy.

San Francisco, Panama-Pacific International Exposition, 1915.

r 606 S195of

Official guide; containing a complete index to all features of the exposition, maps, locations of all buildings and exposition structures, as well as a complete guide to the exposition sculpture, mural paintings, architecture and inscriptions and brief descriptions of the exhibit palaces, state, territorial and foreign buildings, from official data. 1915. Wahlgreen.

San Francisco, Panama-Pacific International Exposition, 1915. r 606 S195

[Preliminary pamphlets on the Panama-Pacific International Exposition. 1912.]

Seattle, Alaska-Yukon-Pacific Exposition, 1909

United States—Government board of managers Alaska-Yukon-Pacific exposition, Seattle, 1909. qr 606 S44u

Participation in the Alaska-Yukon-Pacific Exposition. 1911. (61st cong. 3d sess. Senate. Doc. no.671, v.29.)

Vienna, International Exhibition, 1873

Society for the Promotion of Scientific Industry, Manchester, England. r 606 V31s

Artisans' reports upon the Vienna exhibition. 1873.

Other Expositions. Societies

Casetti, G. & Callari, L. r 606 C25
Il giubileo della patria [1911]. 1911.

Franklin Institute. r 606 F88
Year book, 1915. 1915.

607 Technical education

American Federation of Labor. 607 A512

Industrial education; report of Committee on industrial education of the American Federation of Labor; comp. and ed. by C. H. Winslow; presented by Mr Page, Aug. 17, 1912. 1912. (United States. 62d cong. 2d sess. Senate. Doc. no.936.)

The same.....r 607 A512i

With this is bound "Vocational education," by C. S. Page.

Boston, Women's Municipal League. 607 B64

Handbook of opportunities for vocational training in Boston (regular college courses excepted), foreword by David Snedden; comp. by Committee on opportunities for vocational training; ed. by T. C. McCracken. 1913. [Todd.]

The same.....r 607 B64

Busser, Ralph C. r 607 B96

The German system of industrial schooling. 1913. (Philadelphia, Public Education Association. Study no.40.)

Author was for several years American consul at Erfurt, Germany.

Canada—Industrial training and technical education, qr 607 C16

Royal commission on.

Report. 4 pts. in 4v. 1913.

Carnegie Institute of Technology, Pittsburgh. r 607 C216re
Register of graduates, 1908-13. v.1-2. 1913.

Carnegie Institute of Technology, Pittsburgh. r 607 C216r
Register of students, 1912/13-1915/16. 1913-16. Pittsburgh.

Carnegie Institute of Technology, Pittsburgh. r 607 C216sp
Special announcement for the School of applied science, season 1905-06. [1906. Pittsburgh.]

Carnegie Institute of Technology, Pittsburgh. r 607 C216s
Student handbook, 1913-14. v.1. [1913.]

Carnegie Institute of Technology, Pittsburgh. qr 607 C216
Thistle; an annual remembrance book, for the year 1911-16. v.6-[11]. [1911-16.]

For v.1-5 see preceding catalogue, v.4, 6, under Carnegie Institute, Pittsburgh—Technical schools.

Consumers' League of Connecticut. 607 C76

A glance at some European and American vocational schools for children from 12 to 16 years of age. 1911.

Gives very briefly results of an investigation of schools in Germany, Belgium, Holland and the United States.

Cooley, Edwin Gilbert. 607 C78

Some continuation schools of Europe. [1912. Commercial Club of Chicago.]

Contents: Organization of the industrial continuation schools of Crefeld.—Pre-apprenticeship schools of London.—The Scottish system of continuation schools.

Reprinted from "Vocational education."

These articles are some of the results of an investigation of industrial education in Europe undertaken for the Commercial Club of Chicago.

Cooley, Edwin Gilbert. r 607 C78

Vocational education in Europe; report to the Commercial Club of Chicago. 1912. Commercial Club of Chicago.

"Bibliography," p.7.

Report describing typical vocational schools observed by author during a year in Europe. Devoted to educational institutions of Germany, with some special institutions in Austria and Switzerland.

Hamilton, C. 607 H19

Technical school organization and teaching, with a preface by G. U. Yule. 1913. Routledge. (Broadway text-books of technology.)

"Author...shows so clear a grasp of the problems of evening school work, so sane a view of its possibilities and of the part it should play in a national scheme of education, that he gains at once the confidence of his readers. The same lucidity, liberality and practical good sense characterise the subsequent section on the arrangement of courses, the details of administration and the functions of examinations." *Nature*, 1913.

Indiana—Public instruction department. r 607 I24

Vocational education series, Aug. 1913-Sept. 1915. no.1, 3-13. 1913-15.

Industrial education. 1912. Columbia University. 607 I24

Contents: The school and industrial life, by J. E. Russell.—Fundamental values in industrial education, by F. G. Bonser.

Leake, Albert H.

607 L45

Industrial education; its problems, methods and dangers. 1913. Houghton. (Hart, Schaffner & Marx prize essays in economics.)

"List of authorities consulted," p.196-198.

"Admirable analysis of the school attendance and education of the present industrial workers in the United States and Canada...Conclusions...are that industrial education must have its beginnings in the elementary school; that manual training...should be vitalized and given a more industrial content; that a new type of school is needed which will...articulate directly with industrial vocations; that attendance at continuation schools for a limited number of hours per week should be made compulsory for working children up to sixteen years of age at least." *Frank M. Leavitt, in Survey, 1914.*

Leavitt, Frank Mitchell.

607 L46

Examples of industrial education. 1912. Ginn.

Contents: Significance of the movement for industrial education.—Manual training and industrial education.—The demand; an analysis.—The demand of organized labor.—The demand of educators.—The demand of social workers.—The revision of educational ideals involved in the movement for industrial training.—A plan for immediate reorganization.—Examples of more fundamental reorganization.—Prevocational work in grades 6-8.—The intermediate or separate industrial school.—Vocational high schools.—The trade school.—Part-time coöperative schools.—The continuation school.—Vocational guidance.—State legislation.—Concerning agricultural education.

Contains bibliographies.

Summary and discussion of work of public industrial schools in various parts of United States.

Massachusetts—Industrial and technical education,
Commission on.

r 607 M455

Report of the Commission on industrial and technical education; submitted to the Senate and House of representatives, Mass., in accordance with resolve approved May 24, 1905. 1906. (Columbia University, New York—Teachers college. Educational reprints, no.1.)

Massachusetts Institute of Technology.

r 607 M45r

Register of former students, with an account of the alumni associations; March 1915. [1915.] (Bulletin, v.50, no.3.)

For earlier volumes see preceding catalogue, v.6.

r 607 M59

[**Mellon institute; a collection of pamphlets.** 1915. Pittsburgh.]

Contents: Description of the new building of the Mellon institute; The dedication of the new building of the Mellon institute, by W. A. Hamor.—The object and work of the Mellon institute, by R. F. Bacon.

Miller, Leslie William.

607 M69

Necessity for apprenticeship; an address delivered at the annual meeting of the National Society for the Promotion of Industrial Education. 1908. North End Union.

With this are bound: The relation of the trade school to the public school, by L. W. Miller; The claims of industrial art, by L. W. Miller; Training mechanics in Germany, by F. A. Halsey.

First three pamphlets are reprints of addresses by the principal of the School of industrial art of the Pennsylvania Museum. The fourth, by the editor of "American machinist," attempts to correct some erroneous American impressions of German industrial education, explaining apprenticeship system and work of the continuation schools, intended to supplement but not supersede apprenticeship.

National Association of Corporation Schools.

r 607 N1552

Annual convention (1st-4th); addresses, reports, bibliographies and discussions, 1913-16. 1914-16.

Volume for first annual convention contains proceedings of the organizing convention, Jan. 24, 1913.

Object of the association is to aid corporations in the education of their employees.

National Society for the Promotion of Industrial Education. r 607 N155

Bulletin. no.16-22. [1912]-16.

no.16. Proceedings, sixth annual meeting, Philadelphia.

no.17. Short-unit courses for wage earners and a factory school experiment, by W. A. O'Leary and C. A. Prosser.

no.18. Proceedings, seventh annual meeting, Grand Rapids, Mich.

no.19. The selection and training of teachers, for state-aided industrial schools for boys and men; special report.

no.20. Proceedings, eighth annual meeting, Richmond, Virginia.

no.21. Report of the Minneapolis survey for vocational education.

no.22. Proceedings, ninth annual meeting, Minneapolis, Minnesota.

For no.1-15 see preceding catalogue, v.6.

National Society for the Promotion of Industrial Education. r 607 N155s

Synopsis of the findings of the Vocational education survey of the city of Richmond by the General survey committee. [1914.]

National Society for the Scientific Study of Education. r 370.6 N1552 v.11

Industrial education; typical experiments described and interpreted. 1912. (In its Yearbook, v.11, pt.1.)

New York (state)—Education department. 607 N26

Industrial and trades schools; addresses by the commissioner of education. 1908.

Contents: Our children, our schools and our industries.—The adaptation of the schools to industry and efficiency.

Page, Carroll Smalley. r 607 A512i

Vocational education; speech delivered in the Senate, June 5, 1912, on Senate bill 3, to cooperate with the states in encouraging instruction in agriculture, the trades and industries and home economics. 1912. (United States. 62d cong. 2d sess. Senate. Doc. no.845.)

Bound with American Federation of Labor. "Industrial education."

Pittsburgh—Public education board. r 607 P67

Report on industrial & continuation schools [by] G. W. Gerwig. [1914.] Pittsburgh.

"Reference books on industrial education," p.7-8.

Pamphlet dealing mainly with conditions in Europe.

Ricketts, Palmer Chamberlain. r 607 R34r

History of Rensselaer Polytechnic Institute, 1824-1914. [Ed.2.] 1914. Wiley.

"Bibliography," p.185-190.

Roman, Frederick William. 607 R65

Industrial and commercial schools of the United States and Germany; a comparative study. 1915. Putnam.

Report to state superintendent of public instruction of Kentucky.

History and comparison. Result of two and one half years of investigation, including a regular course on the methods and purposes of Prussian continuation schools.

Smith, Harry Bradley. r 607 S64

Report on the industrial schools of Hamburg and Altona [Germany], with references to Harburg and Blankanese. 1911.

"Deals almost exclusively with the everyday internal workings of the schools, having always in view those points that should be most useful to similar schools in the United States." *Introduction.*

"As thorough an inquiry into the whole matter as has probably been made by any American teacher." *A. S. Draper, in introductory note.*

United States—Labor bureau.**r 331 U25an v.25**

Industrial education in the United States. 1911. (In its Annual report, v.25.)

"Selected bibliography on industrial education," p.519-539.

Outlines scope of various classes of industrial schools and describes in detail many typical individual schools. Classes schools as philanthropic, public, coöperative, evening, textile, correspondence, girls', negro, and Indian, and apprenticeship schools of railways and corporations. Discusses legislation, state commissions and attitude of various organizations.

**United States—National aid to vocational education,
Commission on.**

607 U25

Vocational education; report of the Commission on national aid to vocational education, with the hearings held on the subject, made pursuant to the provisions of Public resolution no.16, 63d cong. (S. J. res. 5). 2v. in 1. 1914. (63d cong. 2d sess. House. Doc. no.1004.)

The same. (63d cong. 2d sess. House. Doc. no.1004, v.149.).. **r 607 U25**

"Wherever the term 'vocational education' is used in this report, it will mean, unless otherwise explained, that form of education whose controlling purpose is to give training of a secondary grade to persons over 14 years of age for increased efficiency in useful employment in the trades and industries, in agriculture, in commerce and commercial pursuits, and in callings based upon a knowledge of home economics." *Introduction.*

qr 607 V36

Vocational education; bimonthly, Sept. 1911–date. v.1–date. 1911–date.

Weeks, Ruth Mary.**607 W42**

The people's school; a study in vocational training. 1912. Houghton. (Riverside educational monographs.)

"Bibliography on elementary vocational education," p.195-202.

The same. (In Vocational education.)..... **371.42 V36**

"The function of this...book...is suggestive rather than exhaustive, and its object will have been fully accomplished if...one dominant idea rises continually to view: the idea of social welfare." *Conclusion, p.192.*

Plea for elementary vocational education and for greater attention to practical, democratic schools for the plain man. Indicates that the problem of vocational training is much more profound than mere trade school preparation for work. "It is to educate the public mind, to embody a working ideal that will gradually transform industrial practice."

**Wisconsin—Industrial and agricultural training, Com-
mission upon the plans for the extension of.**

r 607 W81

Report submitted Jan. 10, 1911. 1911.

Submits to the legislature various recommendations for improved facilities, including creation of state and local supervision boards, liberal state aid, increased university extension work, traveling instructors in agriculture, minimum salary law, and adequate provision for training of teachers.

Wisconsin—State board of industrial education.**r 607 W812**

Bulletin, 1912–date. no.1–date. 1912–date.

For contents see Contents book kept at the reference desk.

608 Patents**Ellis, Ridsdale.****r 608 E53**

The patent law in relation to chemistry. 1912. Gill.

With this is bound "Patents and their exploitation," by H. A. Gill and Ridsdale Ellis. Gill & Ellis are "chartered patent agents" in London.

Evans (Victor J.) & Co. Washington, D. C. r 608 E94

How to obtain a patent. [1915.]

Contains chapter on Mechanical movements.

Bound with its "What to invent."

Evans (Victor J.) & Co. Washington, D. C. r 608 E94

What to invent; the evolution of invention and suggestions as to active and profitable fields of inventions in which improvements are desired, by V. J. Evans. 1916.

With this is bound "How to obtain a patent."

Haddan, Reginald. r 608 H12

Inventor's adviser and manufacturer's handbook to patents, designs & trade marks; an instructional guide to the commercial development of inventions, their protection by patents at home and abroad and the valuation and disposal of patent rights, including particulars of the patent law and practice in Great Britain and all foreign countries and colonies, requirements for registration of designs and trade marks, and appendices of forms for every country, authorities, sizes of drawings, &c. Ed.9. 1913. Harrison.

"Authorities consulted and referred to in the text," p.379-381.

Macomber, William. 608 M13

Engineers' handbook on patents. 1913. Little.

"Omitting legal phraseology and terminology to the utmost, I have endeavored to state in plain words those things which the inventor, the industrial leader, and especially the engineer, want to know." *Preface.*

Thomescheit, M. r 608 T37

Die patentrecherche; wegweiser zur ermittlung deutscher und ausländischer patentschutzrechte und zur feststellung der den export-handel schädigenden scheinpatente. 1914.

Guide which will greatly facilitate the work of examining patent records. Arranged by countries. Indicates the scope and nature of the patent publications of each country, and outlines the best methods of attacking the various problems that arise in searching these records.

White, William Wallace, comp. r 608 W63

Patents throughout the world, 1912; general information. 1912.

Privately printed.

Presents concisely the more important features of foreign patent laws.

Europe

England—Patent office—Library. r 608.4 E64a

Key to the classifications of the patent specifications of France, Germany, Austria, Netherlands, Norway, Denmark, Sweden and Switzerland. Ed.3. 1915. (Patent office library series, no.1.)

Germany—Kaiserliches patentamt. qr 608.43 G32ma

Manual of classification of the German Patent office; edition of 1910; tr. by G. A. Lovett. 1911.

Issued by the United States patent office.

Germany—Kaiserliches patentamt. qr 608.43 G32n

Nummernliste der deutschen patentschriften nach rund 8000 gruppen sachlich geordnet; bearbeitet im Kaiserlichen patentamt. Ed.2. 1912.

Arranged according to classes, subclasses and groups of the German patent classification, giving the numbers of all patents in each group.

Germany—Kaiserliches patentamt.**qr 608.43 G32vr**

Verzeichnis der deutschen patentschriften nach der laufenden nummer geordnet, mit angabe der zugehörigen klassen und gruppen; bearbeitet im Kaiserlichen patentamt zu Berlin. 1908.

United States**Chicago, Patent Law Association.****r 608.73 C43**

Revision of the patent laws, the Oldfield bill; being a report and papers relating to House bill 23417 as revised Aug. 8, 1912. 1913. U. S. Government. (United States. 63d cong. 1st sess. Senate. Doc. no.151.)

Inventors Guild.**r 608.73 I24**

Preliminary report to the Inventors' Guild, by F. L. O. Wadsworth. 1913.

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Interesting descriptive accounts in non-technical language.

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Air, food and exercise; an essay on the predisposing causes of disease. Ed.3, enl. & rewritten. 1904. Wood.

Sherman, Henry Clapp. 613.2 S55

Food products. 1914. Macmillan.

"References" at the end of each chapter.

Comprehensive. Particular emphasis given to the question of nutritive value. Discusses foods and food products in a practical manner, giving analyses, processes of manufacture, and food legislation.

Thompson, Vance. 613.2 T384

Eat and grow thin; the Mahdah menus, with a preface by Vance Thompson. 1914. Dutton.

Prescott, Samuel Cate, & Winslow, C. E. A. 613.33 P92

Elements of water bacteriology, with special reference to sanitary water analysis. Ed.3, rewritten. 1913. Wiley.

"References," p.281-306.

Practical manual of methods for the bacteriological examination of water and the interpretation of analyses.

Whipple, George Chandler. 613.33 W62

Microscopy of drinking-water. Ed.3, rewritten & enl. 1914. Wiley.

Contains also a chapter entitled "The microscope and its use," by J. W. M. Bunker.

"Scientific literature," p.393-400.

Baths. The toilet

Cosgrove, John Joseph. 613.46 C83

Design of the Turkish bath. 1913. Standard Sanitary Mfg. Co. Pittsburgh.

Aims to present simply and comprehensively the method of construction of various types of Turkish baths, with comment on materials and appliances.

Cocroft, Susanna. q 613.49 C64

Beauty a duty; the art of keeping young. 1915. Rand.

Hygiene of employment

See also Labor of women and children, 331.3-331.4

Ohio—Health board. r 613.6 O18

Survey of industrial health-hazards and occupational diseases in Ohio, by E. R. Hayhurst. 1915.

Thompson, William Gilman.

613.6 T38

Occupational diseases; their causation, symptoms, treatment and prevention. 1914. Appleton.

First comprehensive work on the subject by an American authority. The symptoms, treatment and prevention of many diseases are discussed in detail, and the hygienic hazards of various occupations are clearly stated. Author handles the subject from the standpoint of the physician, and claims that most of the occupational diseases are preventable. There are a few minor inaccuracies in the descriptions of chemical and industrial processes, but in general the book is excellent.

Gilbreth, Frank Bunker, & Gilbreth, Mrs Lillian (Moller). 613.617 G38

Fatigue study; the elimination of humanity's greatest unnecessary waste, a first step in motion study. 1916. Sturgis.

Bates, Mrs Lindon Wallace.

r 613.62 B31

Mercury poisoning in the industries of New York city and vicinity. [1912?] National Civic Federation.

Detailed study of conditions in the fur-cutting and felt hat industries.

Physical culture. Exercise

For School hygiene, see 371.7

Hutchinson, Woods.

613.7 H97

Exercise and health. 1911. Outing. (Outing handbooks.)

Contents: Errors in exercise.—Athletics and the heart.—Muscle maketh man.—Occupation and exercise.—The real danger of athletics.—Exercise that rests.

In breezy, interesting style preaches the doctrine of exercise as a daily habit. Insists on open-air exercise and discourages attempts to compress the daily allowance into a few minutes of unusual vigor.

Gymnastics

For Outdoor sports, see 796

Bishop, Mrs Emily Mulkin.

613.71 B49d

Daily ways to health. 1910. Huebsch.

Advice on personal hygiene. Devoted mainly to special exercises, most of which are simple and require no apparatus.

Bridges, Dwight T. *comp.*

r 016.61371 B74

Bibliography of physical training; English titles, 1905 to May 1911. 1912. Physical Directors' Soc. of the Y. M. C. A.

Thesis, International Young Men's Christian Association Training School.

Being supplement to "Bibliography of physical training," by J. H. McCurdy (r 016.61371 M14).

District of Columbia—Fire department.

r 613.71 D63

Setting-up exercises for members of the uniformed force, and first aid to the injured, 1916. 1916. U. S. Government.

[Ling, Per Henrik.]

qr 613.71 L72

Collection of gymnastic positions; issued by the Royal Gymnastic Central Institute, Stockholm [plates]. 1893.

Drawings illustrating positions in all classes of gymnastic exercises, including therapeutic gymnastics.

McKenzie, Robert Tait.

613.71 M18

Exercise in education and medicine. Ed.2, rev. 1915. Saunders.

Purpose is "to give a comprehensive view of the space exercise should hold in a complete scheme of education and in the treatment of abnormal or diseased conditions." *Preface.*

Valuable addition to the literature of physical exercise. Will be helpful to a wide circle of readers. Pt.1, "Exercise in education" is particularly free from technicalities.

United States—War department.

613.71 U25

Manual of physical training for use in the United States army. 1914.

Watts, Mrs Diana.

q 613.71 W33

Renaissance of the Greek ideal. 1914. Stokes.

"Develops a theory of exercise. Mrs. Watts's system grew out of the endeavor to analyze and imitate the poses of certain Greek statues, notably the Discobolus and the archer of the Aegina pediment...From these...studies she draws a series of exercises involving utmost accuracy of execution, tension throughout the movement, exquisite balance...Illustrated by photographs and cinema series." *Nation*, 1914.

Hygiene of nervous system

Alcohol

For Temperance, see 178

Horsley, Sir Victor Alexander Haden, & Sturge, M. D. r 613.81 H81

Alcohol and the human body; an introduction to the study of the subject and a contribution to national health. [Ed.4.] 1911. Macmillan.

Contains also a chapter entitled "The influence of the drinking of alcoholic beverages on the national health," by Arthur Newsholme.

Eugenics

See also 575.6

Saleeby, Caleb Williams.

613.9 S16w

Woman and womanhood; a search for principles. 1911. Kennerley.

614 Public health

Bergey, David Hendricks.

614 B45a2

Principles of hygiene; a practical manual for students, physicians and health-officers. Ed.5, rev. 1914. Saunders.

The same. Ed.4, rev. 1912.....614 B45a

Covers the whole subject in brief form, explaining and illustrating the general principles without attempting to treat the subject exhaustively.

Ogden, Henry Neely.

614 O17

Rural hygiene. 1911. Macmillan. (Rural science series.)

Popular in style. Covers the broad field of sanitation.

"Treatment of the major portion of the subject is better suited to engineering or advanced agricultural students than to the rural population generally." *Engineering news*, 1911.

United States—Public health service.

r 016.614 U25

Publications, Sept. 1915. 1915.

Periodicals. Societies

Pennsylvania—Health department. r 614.05 P39

Pennsylvania health bulletin [monthly], July 1909–date. no.1–date. 1909–date.

International Congress of Hygiene and Demography r 614.06 I24a15
(15th), Washington, D. C. 1912.

Transactions. 6v. 1913.

v.1. Organization and membership.—Opening and closing sessions.—Proceedings of the Permanent international commission.—Reports of the secretary general and the director of the exhibition.—Plenary addresses.—Proceedings of joint sessions.—General index.

v.2. Hygienic microbiology and parasitology.—Dietetic hygiene.—Hygienic physiology.

v.3. Hygiene of infancy and childhood.—School hygiene.—Hygiene of occupations.

v.4. Control of infectious diseases.—State and municipal hygiene.

v.5. Hygiene of traffic and transportation.—Military, naval and tropical hygiene.

v.6. Demography.

Study and teaching

Rucker, William Colby. r 614.07 R82

United States public health service as a career. 1914. (United States—Public health service. Miscellaneous publication no.13.)

History

Seattle, Wash.—Health and sanitation department. r 614.09 S44

Report embracing the work of the department and the vital statistics for the calendar years, 1912–15. [1915–16.]

United States—Public health service. r 614.4 U25p v.29

State and insular health authorities. 1914. (In its Public health reports, v.29, p.1145–1167.)

Public health in special localities

State and city reports

United States—Public health service. r 614.0973 U253

Municipal ordinances, rules and regulations pertaining to public health adopted from July 1, 1911 to Dec. 31, 1911 [and] during 1912, by cities of the United States having a population of over 10,000 in 1910. 1913–14.

Reprint no.121, 199, from its "Public health reports," 1912–13.

Works, John Downey. r 614.0973 W89

Speech of Hon. John D. Works of California in the Senate of the United States, Jan. 5 and 6, 1915. 1915. (United States—Public health service.)

Advocates making the Public health service work broader, more tolerant and more human. Mr Works is a believer in Christian science and much of his speech is devoted to arguments in favor of its practice.

- Maine**—Health board. r 614.09741 M26
 Report (16th–18th), 1910–15. 1913–16.
 For earlier reports see preceding catalogue, v.1, 6.
- Massachusetts**—Sanitary survey, Commissioners of. r 614.09744 M455
 Report of a general plan for the promotion of public and personal health presented April 25, 1850. 1850.
 Outlines comprehensive plan for sanitary survey of the state and recommends adoption of legislative, social and personal measures for prevention, mitigation and removal of the causes of disease and death.
- New York (state)**—Health department. r 614.09747 N261
 Annual report (32d–34th), 1911–13. 1912–14.
 This department continues the work of the State board of health which was abolished in 1901.
 For earlier reports see preceding catalogue, v.4, 6.
- New York (state)**—Health department. r 614.09747 N261p
 Proceedings of the annual conference (12th) of sanitary officers, 1913. 1913.
 For earlier reports see preceding catalogue, v.6.
- New York (state)**—Health department. r 614.09747 N261pu
 Public health manual. 1911.
 With this is bound supplement containing amendments made to the public health laws by the legislature of 1911.
 Guide to law on matters of public health. Gives directions and describes procedure to be followed by health officers and physicians.
- New York (city)**—Health department. r 614.09747 N2612mo
 Monograph series. no.2–4, 7–15. 1912–16.
- New York (city)**—Health department. r 614.09747 N2612m
 Monthly bulletin, 1911–date. v.1–date. 1911–date.
- New York (city)**—Health department. r 614.09747 N2612r
 Report for the years 1910–16. 1912–17.
- New York (city)**—Health department. r 614.09747 N2612re
 Reprint series. no.3–date. 1913–date.
 No.4 wanting.
- New York (city)**—Health department. r 614.09747 N2612
 Sanitary code, 1910. 1910.
 Adopted by the Board of health of the Department of health of the city of New York.
- Pennsylvania**—Health department. r 614.09748 P39m
 Manual, rules and regulations for the guidance of county medical inspectors and state health officers. 1912.
- Maryland**—Health, State board of. r 614.09752 M43
 Annual report for the year ending Dec. 31, 1911–13. 1913–16.
 For reports for 1905–10 see preceding catalogue, v.6.
- Richmond, Va.**—Health department. r 614.09755 R42
 Annual report (39th–45th), 1910–16. 1911–17.
 For reports for 1908–09 see preceding catalogue, v.6.
- Kentucky**—Health, State board of. r 614.09769 K19
 Biennial report of the State board of health of Kentucky, 1910–11. 1912.
 For reports for 1897/98–1907/09 see preceding catalogue, v.6.

- Ohio**—Health board. r 614.09771 O18
 Annual report (27th), for the year ending Dec. 31, 1912. 1913.
The same (25th–26th), 1910–11. 1912. (In Ohio—General assembly. Executive documents; annual reports, 1910, pt.4; 1911, pt.2.)r 328.711 O18
 For reports for 1904–08 see preceding catalogue, v.6.
- Indiana**—Health, State board of. r 614.09772 I24
 Annual report (30th–35th), for the fiscal year, 1910/11–1915/16, and statistical year, 1912–17.
 For reports for 1902/03–1909/10 see preceding catalogue, v.6.
- Wisconsin**—Health, State board of. r 614.09775 W81r
 Report (23d–26th), 1908/10–1914/16. 1912–17.
 Includes the Report of the Bureau of vital statistics.
 For reports for 1902/04–1906/08 see preceding catalogue, v.6.
- St. Louis**—Health department. qr 352 S14
 Annual report, 1909/10–1914/15. 1910–[15]. (In St. Louis. Mayor's message, with accompanying documents, 1909/10–1914/15.)
 For report for 1908 see preceding catalogue, v.6.
- Colorado**—Health, State board of. qr 614.09788 C72
 Biennial report (11th), of Colorado State board of health, Jan. 1, 1911 to Dec. 31, 1912. 1913.
 For reports for 1905–10 see preceding catalogue, v.6.
- Hawaiian islands**—Health board. r 614.0996 H36
 Report of the president of the Board of health for the year ending June 30, 1912–16. 1912–16.
 For reports for 1903–11 see preceding catalogue, v.6.

Vital statistics

- Maine**—Vital statistics department. r 614.1 M26
 Annual report (20th–25th) upon the births, marriages, divorces and deaths in the state of Maine for the year ending Dec. 31, 1911–16. 1912–17. Sentinel Pub. Co.
 For reports for 1907–10 see preceding catalogue, v.6.
- Ohio**—Vital statistics bureau. r 614.1 O18
 Annual report (4th), 1914. 1914.
- United States**—Census bureau. qr 614.1 U25
 Mortality statistics (11th–16th annual report), 1910–15. 1913–17.
 Beginning with the statistics for 1908, the most important data for each year are published in advance, in the "Bulletin" of the Census bureau (qr 317.3 U25c12b).
 For reports for 1900–09 see preceding catalogue, v.6, under "United States—Census office."
- United States**—Children's bureau. r 614.11 U25
 Birth registration an aid in protecting the lives and rights of children; necessity for extending the registration area. 1913. (Miscellaneous series, no.2.)

Infant mortality

American Association for Study and Prevention of Infant Mortality. r 614.132 A512

Transactions of the annual meeting (1st-8th), 1910-17.

United States—Children's bureau. r 614.132 U25

Baby-saving campaigns; a preliminary report on what American cities are doing to prevent mortality. 1913. (Infant mortality series, no.1.)

Directions for the care of babies are given in the appendix, in the English, Italian, German, Polish, Yiddish, Slovakian, French and Hungarian languages.

United States—Children's bureau. r 614.132 U25

Infant mortality series. no.1-5. 1913-16.

For contents see Contents book kept at the reference desk.

Mortality from special diseases

Phelps, Edward Bunnell. qr 614.16 P48

Supposed death-rates of abstainers and non-abstainers and their lack of scientific value. 1913. Thrift Pub. Co.

Reprinted from the "American underwriter magazine and insurance review," v.40, July 1913.

United States—Census bureau. r 614.16 U25i

Index of joint causes of death, showing assignment to the preferred title of the international list of causes of death when two causes are simultaneously reported. 1914.

United States—Census bureau. r 614.16 U25

Manual of the international list of causes of death; based on the second decennial revision by the international commission, Paris, July 1 to 3, 1909. 1913.

Intended to replace the "Manual of international classification," published in 1902, and also the translation of Bertillon's "Nomenclature des maladies," published in 1910 under the title "International classification of causes of sickness and death" (qr 616.012 B46).

Contains appendix showing additions and changes since the first publication of the manual in 1911.

United States—Census bureau. r 614.16 U25p

Physicians' pocket reference to the international list of causes of death, prepared under the supervision of C. L. Wilbur. Ed.2. 1913.

Marriage. Divorce

For Marriage customs, see 392

United States—Census bureau. qr 317.3 U25c12sp v.19

Marriage and divorce, 1867-1906. 2 pts. in 2v. 1908-09. (In United States—Census bureau. Special reports, v.19, pt.1-2.)

pt.1. Summary, laws, foreign statistics.

pt.2. General tables.

State control of medicine

Patent medicines. Nostrums

MacNutt, Joseph Scott.

614.2 M21

Manual for health officers, with a foreword by W. T. Sedgwick.
1915. Wiley.

Contains bibliographies.

Summarizes the scientific principles governing public hygiene, and discusses the organization and proper functions of the authorities entrusted with the conservation and promotion of the health of communities.

Iowa—Pharmacy commission.

r 614.24 I25

Biennial report (15th–16th) of the commissioners, 1908/10–1910/12.
1910–12.

For earlier reports see preceding catalogue, v.6.

Pennsylvania—Pharmaceutical examining board.

r 614.24 P39

Annual report (22d–29th), 1909/10–1916/17. 1910–18.

The same (1st–17th), 1887/88–1904/05. [1889–1906.] (In Pennsylvania-Health board. Annual report, v.4–20.).....r 614.09748 P39

Reports (18th–21st) for 1905/06–1908/09 have not been published.

In 1917 this board was superseded by the Pharmacy board.

r 614.27 N47

Nostrums and quackery; articles on the nostrum evil and quackery, reprinted from the Journal of the American Medical Association. [1912.] Amer. Medical Assoc.

Reveals chemical composition, estimates cost and discusses objectionable publicity methods. Includes criticism of cures for cancer, consumption, asthma, coughs, obesity, headaches, rheumatism and other ailments.

Oleson, Charles Wilmot, comp.

r 614.27 O23

Secret nostrums and systems of medicine; a book of formulas. Ed.4, rev. & enl. 1892. Oleson.

United States—Internal revenue office.

r 614.28 U25

Compilation of treasury decisions relating to the act of Dec. 17, 1914, known as the Harrison narcotic law, issued during the period Feb. 2 to Nov. 5, 1915. 1915.

Contains text of the law.

Wilbert, Martin Inventius, & Motter, M. G. comp.

r 614.28 W69

Poisons and habit-forming drugs; a digest of laws and regulations relating to the possession, use, sale and manufacture of poisons and habit-forming drugs enacted during 1912 and 1913, now in force in the United States. 1913. (United States—Public health service. Reprint no.146.)

The same. (In United States—Public health service. Public health reports, v.28, p.2111–2147, 2181–2218.).....r 614.4 U25p v.28

Adulterations

For Chemical analysis, see 543

r 614.3 A53

Analyst; the journal of the Society of Public Analysts and Other Analytical Chemists; decennial index, v.31–40, 1906–15.

For indexes for v.1–30 and for volumes of magazine see preceding catalogue, v.1, 4.

Breed, Abbott & Morgan, New York. r 614.3 B72

Digest of national and state food laws; comp. for National Wholesale Grocers' Association of the United States. 1916.

McCann, Alfred Watterson. 614.3 M12

Starving America. 1912. Doran.

"An arraignment of our food products and a plea for purer and more wholesome foods, specially for the child, based on specialized knowledge gained in various positions with the government and with food industries... Concerned mostly with the attempt to prove that our premature loss of life is due chiefly to the use of foods from which the mineral ingredients necessary to sustain health have been removed by ignorant or greedy manufacturers. An arresting and important book though its sensational, newspaper style is against it." *A. L. A. booklist*, 1913.

Nevada—Agricultural experiment station, Reno. r 614.3 N25

Report of the Department of food and drugs control for the period ending Dec. 31, 1912. 1912.

Olsen, John Charles. 614.3 O23

Pure foods; their adulteration, nutritive value and cost. 1911. Ginn.

Valuable little book for the general reader and for the domestic science teacher. Does not claim originality, but collects in popular form results and conclusions from investigations of numerous pure food workers.

United States—Chemistry bureau. r 614.3 U2532m

Manual of procedure for the guidance of state health, food and drug officials. 1916.

Outline for enforcement of food and drugs act.

United States—Chemistry bureau. r 614.3 U2532

Service and regulatory announcements, 1914–date. no.1–date. 1914–date.

—Supplement, April 1915–date. no.1–date. 1915–date.r 614.3 U2532a

United States—Solicitor, Office of. (Department of agriculture.) r 614.3 U2533

Circular. no.1–date. 1907–date.

Several numbers wanting.

Wiley, Harvey Washington. 614.3 W710

1001 tests of foods, beverages and toilet accessories, good and otherwise, why they are so; arranged by A. L. Pierce. Rev. ed. 1916. Hearst's International Library Co.

The same. 1914.r 614.3 W710

Ratings of trade preparations, with general compositions. Particular attention to accuracy of statements on labels.

Food inspection

Boston, Women's Municipal League. r 614.31 B64

Report on the conditions of the provision stores of Boston; comp. by C. E. Russell [for the Market committee].

Dunn, Charles Wesley, ed. r 614.31 D92

Dunn's pure food and drug legal manual. v.1. 1912–13. Dunn's Pure Food and Drug Legal Manual Corporation.

Encyclopedia of Federal, state and territorial laws and regulations relating to food standards, food inspection, drugs, paints and oils.

United States—Manufactures committee. (Senate.) r 614.31 U253

Foods held in cold storage; hearings before the Committee on manufactures, United States Senate, 62d congress. 1911.

United States—Manufactures committee. (Senate.) r 614.31 U253r

Report of committee and hearings held before the Senate committee on manufactures [61st congress] relative to foods held in cold storage. 1911. (61st cong. 3d sess. Senate. Report, no.1272, v.3.)

Walker, A. Horace. 614.31 W16

Inspection of fish, poultry, game, fruit, nuts and vegetables. 1911. Baillière.

Useful supplement to books on meat inspection. Valuable also as affording brief information on sources and properties of many food stuffs, though reference is constantly to source of the British supply.

Westervelt, James. r 614.31 W56

American pure food and drug laws. 1912. Vernon Law Book Co.

Binder's title reads "Pure food and drug laws, Federal and state."

Considers in detail the laws of various states, comparing with Federal legislation.

Meat

United States—Animal industry bureau. r 614.317 U253s

Service and regulatory announcements, 1914-date. 1914-date.

Milk inspection

Rosenau, Milton Joseph. 614.32 R72

The milk question. 1912. Houghton. (Northwestern University.

N. W. Harris lectures for 1912.)

"References," p.298-302.

Plea for improved sanitary conditions in the milk industry. Discusses food value of milk, the dangers of impure milk and methods of securing pure, clean milk.

United States—Hawaii agricultural experiment station. r 614.32 U25

Production and inspection of milk, by E. V. Wilcox. 1912.

"Bibliography of milk inspection," p.316-343.

Washington, D. C., Chamber of Commerce—Special committee on milk situation in District of Columbia. r 614.32 W27

Report, prepared by J.L. Willige. 1911. (United States. 61st cong. 3d sess. Senate. Doc. no.863, v.69.)

Contains information on milk hygiene and history of Federal and local regulation of milk supply.

Contagion. Infection

United States—Public health service. r 614.4 U25p2

Public health reports; supplement. no.1-date. 1913-date.

Issued irregularly.

1870-June 1902 the name of the service was United States—Marine-hospital service, and July 1902-Aug. 1912, United States—Public health and marine-hospital service.

For volumes which this supplements, see preceding catalogue, v.1.

Hill, Hibbert Winslow. 614.44 H55

The new public health. 1913. Press of the Journal-lancet.

"Able exposition of the latest scientific ideas concerning the control of the communicable diseases...May be recommended to the public health official as suggestive and stimulating, and to the layman or social worker as distinctly informing." *American journal of public health*, 1913.

Pittsburgh—Infectious diseases bureau. r 614.44 P67

Hand book of information, rules and regulations relating to the control of infectious diseases, April 1914, Jan. 1916. [1914-16.]

American Academy of Medicine. r 614.448 A51

Medical problems of immigration; being the papers and their discussion presented at the 37th annual meeting of the American Academy of Medicine, held at Atlantic City, June 1, 1912. 1913.

"These papers will be inciters of thought rather than formulators of results. They show the care taken to admit only the physically sound into the country. They show, as well, that the same care is not exercised in maintaining that condition in those admitted." *Foreword.*

Christian, Max. 614.48 C45

Disinfection and disinfectants; tr. from the German by Charles Salter. 1913. Scott, Greenwood.

Confined mainly to modern methods of disinfection, with description of apparatus. Brief and elementary in character, not attempting to go into the deeper scientific aspects of the subject.

Ballner, Franz. r 614.481 B21

Über die desinfektion von büchern, drucksachen u. dgl. mittels feuchter heisser luft. 1907.

Gives information and experimental data on the disinfection of books and papers by use of hot air with a definite moisture content.

qr 614.481 D63

[Disinfection of books; a collection of pamphlets. 1895-1908.]

Contents: Untersuchungen über den keimgehalt und die desinfektion benutzter bücher, von Alexander Lion.—Disinfection of books, by B. R. Rickards.—Desinfektion von büchern, militärischen ausrüstungsgegenständen, pelzen usw. mit heisser luft, von Dr Findel.—Die desinfektion von büchern mittels feuchter heisser luft und gesättigten, niedrig temperierten, unter vakuum strömenden formaldehydwasserdämpfen, von Dr Xylander.

Hooker, Albert Huntington. r 614.484 H77

Chloride of lime in sanitation. 1913. Wiley.

"Abstracts and references," p.79-224.

Discusses manufacture and properties of chloride of lime and its various applications in sanitation, especially the purification of water. Nearly two thirds of the book is made up of abstracts of articles in technical journals.

Cholera. Yellow fever. Leprosy

r 614.514 E69

Epidemic cholera; its mission and mystery, haunts and havocs, pathology and treatment, with remarks on the question of contagion, the influence of fear, and hurried and delayed interments, by a former surgeon in the service of the honorable East India Company. 1866. Carleton.

Binder's title reads "The cholera;" note at head of title-page "A compact and practical handy-book."

Finlay, Carlos Juan. qr 614.541 F49

Trabajos selectos, Selected papers. 1912. Cuba government.

"Bibliografia," p.623-654.

Most of these papers are here printed in both English and Spanish.

Yellow fever is the general subject discussed.

United States—Yellow fever institute.

r 614.541 U253

Bulletin. no.14, 16-17. 1905-09.

For no.1-13, 15 see preceding catalogue, v.1, 4.

r 614.541 Y23

Yellow fever; a compilation of various publications; results of the work of Maj. Walter Reed, Medical corps, United States army and Yellow fever commission. 1911. (United States. 61st cong. 3d sess. Senate. Doc. no.822, v.61.)

Contents: Walter Reed, the man, his work, and the appreciation shown of the results accomplished by him and his associates on the Yellow fever commission, by W. D. McCaw and others.—The publications of Walter Reed and his associates.—The publications of James Carroll in regard to yellow fever (pub. after the death of Maj. Reed).—Reports from sanitary officers in Habana, Cuba.—A few general directions with regard to destroying mosquitos, particularly the yellow-fever mosquito, by W. C. Gorgas.

qr 614 U253

Studies upon leprosy. pt.1-7, 9-32. 1908-16. (In United States—Public health service. Public health bulletin, no.26-28, 39, 41, 47, 50, 61, 66, 75.)

Air pollution

Rasch, Hermann.

qr 614.7 R21

Der schutz der nachbarschaft gewerblicher anlagen in Hamburg. 1911. (Hamburg—Gewerbe-inspektion. Arbeiten und sonderberichte, 1911.)

Considers hygienic conditions in many different industries, discussing briefly the effects of smoke and dust.

Schaefer, E.

qr 614.7 S29

Verwendungsart und schädigende wirkung einiger kohlenwasserstoffe und anderer kohlenstoffverbindungen. 1910. (Hamburg—Gewerbe-inspektion. Arbeiten und sonderberichte, 1909.)

"Literatur," p.23.

Guillemain, C.

r 614.715 G96

Theorie und praxis der staubverdichtung und der reinigung und entstaubung von gasen. 1911.

Hessler, Robert.

614.715 H49

Dusty air and ill health; a study of prevalent ill health and causes. 1912. Privately printed.

"Sets down in rather rambling sequence the observations of a family physician of many years' experience in city and country practice, who has formed a strong belief that dust is the greatest single cause of disease." *Survey*, 1913.

Accident prevention

Bibliography

United States—Labor statistics bureau.

r 016.6148 U25

Books and periodicals on accident and disease prevention in industry, in the library of the Bureau of labor statistics. [1916.]

Industrial accidents. Safety devices

- Beyer, David Stewart.** qr 614.8 B46
 Industrial accident prevention. 1916. Houghton.
 "Safety organizations, publications, etc.," p.404-405.
 Well illustrated treatise, the most comprehensive yet published in English (1916).
- Co-operative Safety Congress (1st), Milwaukee, 1912.** r 614.8 C79
 Proceedings. [1913?]
 First congress held under auspices of Association of Iron and Steel Electrical Engineers. Papers cover a wide field, considering prevention of industrial accidents in mining, transportation and various branches of manufacturing.
- Cowee, George Alvin.** 614.8 C84
 Practical safety methods and devices; manufacturing and engineering. 1916. Van Nostrand.
 Valuable summary, containing much descriptive matter and characterized by inclusion of definite rules for safety in each of the more hazardous branches of industry. Less fully illustrated than Beyer's "Industrial accident prevention."
- Hansen, Carl Marius.** r 614.8 H24
 Universal safety standards; a reference book of rules, drawings, tables, formulae, data and suggestions for use of architects, engineers, superintendents, foremen, inspectors, mechanics and students; comp. under the direction of and approved by the Workmen's Compensation Service Bureau, New York. Ed.2, rev. & enl. 1914. Universal Safety Standards Pub. Co.
- Higgins, Edwin, & Steidle, Edward.** r 622.009 U25t no.67
 Mine signboards. 1913. (In United States—Bureau of mines. Technical paper 67).
 "Publications on mine accidents and methods of mining," p.14-15.
- Illinois—Labor statistics bureau.** r 614.8 I226
 Industrial accidents in Illinois; report (6th-9th), 1912-15. 1913-16.
 For reports for 1907-11 see preceding catalogue, v.6.
- Indiana—Inspection bureau.** r 614.8 I247
 Annual report (1st-2d) relating to manufacturing and mercantile establishments, laundries, bakeries, quarries, printing offices, hotels, public buildings, mines and mining, boilers, labor commission and license issued, 1911/12-1912/13. 1913-14.
 Bureau was created by act of legislature in 1911 and in it are consolidated all previous departments of inspection and the labor commission.
- Indiana—Inspection department.** r 614.8 I24
 Annual report (12th), 1908, of manufacturing and mercantile establishments, laundries, bakeries, quarries, printing offices, hotels and public buildings. 1909.
 For reports for 1909-10 see preceding catalogue, v.6.
 Later reports are issued by the Inspection bureau which was created in 1911.
- Moore, Robert H.** qr 614.8 M87
 Safety first. 1914. Amer. Mutual Compensation Insurance Co.
 Precautions in elevator service, use of machinery guards and protection of eyesight.

- New York (city), Academy of Political Science.** r 305 N26 v.2
Business and the public welfare. 1912. (In its Proceedings, v.2, no.2.)
Contents: Social efficiency in business.—The improvement of labor legislation.—Financial facilities for wage-earners.—Government and business.
- New York (city), American Museum of Safety.** r 614.8 N26m
Manuals of safety, 1911-12. no.1-3. 1911-12.
With this is bound its "Year book," 1912.
- New York (city), American Museum of Safety.** r 614.8 N26m
Year book, 1912-13. Ed.1-2.
Bound with "Manuals of safety."
- Pennsylvania—Industrial board.** r 614.8 P39
Safety standards, Feb. 1915-date. v.1-date. 1915-date.
v.1, no.10-12, 17-18, 23-25, wanting.
The same, Feb. 1915-April 1917. v.1, no.1-19. 1915-17. (In Pennsylvania—Labor and industry department. Monthly bulletin, v.1-4.)... r 331.8 P399 v.1-4
v.1, no.17-18, wanting.
614.8 S26
- Saving life, by a "B. P." scout.** [1910.] Gale. (Boy scout's library.)
The same... j 614.8 S26
Concise directions for first aid in case of sprains, dislocations, wounds, etc.
- Tolman, William Howe, & Kendall, L. B.** 614.8 T58
Safety; methods for preventing occupational and other accidents and disease. 1913. Harper.
"The first general exposition which has been made in the English language of the vital subject of safety." *Introduction*.
Devoted largely to brief consideration of various safety devices in use in different industrial plants, and their value. Hygienic precautions and social welfare methods are also treated.
- Travelers Insurance Company, Hartford, Conn.** r 614.8 T69
Accident prevention on the farm. 1914.
With this is bound "Organization of safety work in industrial plants."
- United Gas Improvement Company, Philadelphia.** r 614.8 U2533
First aid in accident cases; general. Ed.4, rev. 1913.
Brief illustrated manual.
- United States—Labor statistics bureau.** r 614.8 U2532
Bulletin; industrial accidents and hygiene, Aug. 1912-date. no.1-date. 1912-date.
- United States Steel Corporation—Bureau of safety,** qr 614.8 U253
sanitation and welfare.
Bulletin. no.4-6. 1913-16.
For no.1-3 see preceding catalogue, v.6, under "United States Steel Corporation—Committee of safety."
- Van Schaack, David.** 614.8 V19w
Woodworking safeguards for the prevention of accidents in lumbering and woodworking industries. 1911. Ætna Life Insurance Co.
Practical suggestions confined chiefly to prevention of the more common accidents.

Verband der Deutschen Berufsgenossenschaften. qr 614.8 V26

Unfallverhütung und betriebssicherheit; denkschrift aus anlass des 25 jährigen bestehens der gewerblichen arbeiterversicherung. 1910.

Contents: Die berufsgenossenschaftliche unfallverhütung in ihrer entwicklung von 1885 bis 1910, von Konrad Hartmann.—Unfallverhütungstechnik, von Georg Schlesinger.

Exhaustive treatise including both accident prevention and first aid. Considers the application of safety devices in all important industries both on land and at sea. Fully illustrated.

r 614.805 J46

Journal of industrial safety [monthly], Feb. 1911–March 1912. v.1–v.2, no.3. 1911–12.

No more published.

r 614.805 T69

Travelers standard [monthly], Oct. 1912–Dec. 1916. v.1–4. [1913–17.]

Published by the Engineering and inspection bureau of the Travelers Insurance Company.

Inspection of explosives. Electrical injuries

Cooper-Key, Aston.

614.834 C78

Primer on the storage of petroleum spirit and carbide of calcium, for the use of local inspectors and motorists. 1914. Griffin.

Author is (1914) chief inspector of explosives for Great Britain. Discusses nature of various inflammable substances, government regulations relating to storage and use, and proper management of stores.

Lauffer, Charles Alpheus.

614.836 L36

Electrical injuries; their causation, prevention and treatment; designed for the use of practical electrical men. 1912. Wiley.

Brief but clear guide to prompt treatment in the case of electrical flashes, shocks, burns, etc.

May, Oscar.

r 614.836 M52

Erläuterungen zu den vorsichtsbedingungen für elektrische licht- und kraft-anlagen des Verbandes Deutscher Privat-Feuerversicherungs-Gesellschaften. 1893.

Brief outline of recommended precautions. Has chapter on insulation.

Monmerqué, A.

r 614.836 M83

Contrôle des installations électriques au point de vue de la sécurité. 1896.

"Ouvrages à consulter," p.5–6.

Devoted partly to elementary principles of production, distribution and measurement of electricity, and partly to dangers, regulation and control.

Price, David J. & Brown, H. H.

r 614.838 P94

Explosibility of grain dusts; cooperative investigation by Millers' Committee of Buffalo; a preliminary report. 1914. Pittsburgh.

Fire prevention

British Fire Prevention Committee.

q 614.84 B75

Record of the special commission to visit Paris, Aug. 1911; comp. by E. O. Sachs and Ellis Marsland. 1912.

No.8, 1912, of the "Journal of the British Fire Prevention Committee."

The same. (In British Fire Prevention Committee. Journal, no.8, 1912.).....qr 614.84 B75j no.8

British Fire Prevention Committee.

q 614.84 B75r

Record of the special commission to visit the principal cities of Italy (and certain German and Swiss cities en route) on the occasion of the International Fire Service Congress at Milan, 1906; comp. by E. O. Sachs and Ellis Marsland. 1907.

No.4, Feb. 1907, of the "Journal of the British Fire Prevention Committee."

Civil service chronicle.

qr 614.84 C49

Fire department promotion examination instruction, for all ranks in the uniformed force and all bureaus in the Fire department; 750 questions and answers to civil service examination questions, etc., and 1000 exam'n questions covering examinations in New York, Chicago, San Francisco, Philadelphia, Newark and Jersey City. Ed.2, enl. 1916.

Croker, Edward Franklin.

614.84 C88

Fire prevention. 1912. Dodd.

Not concerned with fireproof construction, but deals entertainingly with fire prevention and fire extinction, considering protective measures, alarm devices and fire fighting equipment. Author was for 27 years in the fire service of New York city and for nearly 12 years chief of the department.

"Ex-chief Croker has probably seen more fire than any other man in this country. He has undoubtedly directed the attack against this dangerous and versatile adversary more often than any other living man." *Preface.*

r 614.84 C97

Cyclopedia of fire prevention and insurance; a general reference work, prepared by architects, engineers, underwriters and practical insurance men. 4v. 1912. Amer. Technical Soc.

"Bibliography," v.1, p.1-4.

Exhaustive work on fire insurance, fireproof construction and protective devices.

Jenks, Tudor.

j 614.84 J25

The fireman [with] pictures by G. A. Williams. 1911. McClurg. ("What shall I be?" series.)

Beginning with an account of old times and the volunteer system, shows the advantage of modern methods of fire fighting and tells of the different kinds of fires, the system of fire-alarms, how fire companies are managed and the work of the fireman.

Kenlon, John.

614.84 K18

Fires and fire-fighters; a history of modern fire-fighting, with a review of its development from earliest times. 1913. Doran.

Interesting book, which should help to popularize the knowledge of fire prevention. Will give the thoughtful reader a better idea of the appalling fire loss, the seriousness of the fire hazard in America, and the importance of precautionary measures.

McKeon, Peter Joseph.

614.84 M18

Fire prevention; a treatise and text book on making life and property safe against fire; for inspectors, fire marshals, business men, building managers, shop foremen, superintendents of institutions, janitors, engineers, matrons and housekeepers. 1912. Chief Pub. Co.

Written for the "Chief."

Describes and discusses most approved apparatus and methods for preventing and extinguishing fires. Takes up proper construction of buildings and emphasizes precautions for avoiding fires.

National Board of Fire Underwriters.

qr 614.84 N15b

Bulletin; supplement to report, 1914-16.

Index to Bulletins will be found in index to the Report of the National Board of Fire Underwriters (qr 614.84 N15r).

- National Board of Fire Underwriters.** qr 614.84 N15r
 Report no.1—date, 1906—date. [v.1—date. 1906—date.]
 Issued by the Committee of twenty and Committee on fire prevention.
 Index covers numbers issued subsequent to May 1915.
 Many numbers wanting.
 Supplements to many of these reports will be found in its Bulletin (qr 614.84 N15b).
- National Board of Fire Underwriters.** qr 614.84 N15s
 Special report, 1906—16.
 Index to Special reports will be found in index to the Report of the National Board of Fire Underwriters (qr 614.84 N15r).
- National Fire Protection Association.** 614.84 N15
 Field practice; an inspection manual for property owners, fire departments and inspection offices, covering common fire hazards and their safeguarding and fire protection and upkeep. 1914.
 Non-technical. Intended as a guide in the constant care and inspection essential to the proper maintenance of installations in service.
- National Fire Protection Association.** r 614.84 N155pr
 Proceedings of the annual meeting (15th—20th). 1911—16.
 An index to the printed records of the society, to June 1913, will be found in its "Publications," v.4 (r 614.84 N155p).
- National Fire Protection Association.** r 614.84 N155r
 Report on fire [at] the Edison Phonograph Works, West Orange, N. J., Dec. 9, 1914. 1915.
 Prepared jointly with the National Board of Fire Underwriters.
- Pennsylvania—State fire marshal.** r 614.84 P39
 Report (1st—3d), 1913—15. 1914—16.
- Steeb, George Velten.** 614.84 S81
 Agents' and inspectors' pocket-book of fire protection. Ed.2. 1912.
 Spectator.
 Largely compilation of standard rules and regulations intended to obviate the fire hazard in various industries. Well arranged.
- Underwriters' Laboratories.** r 614.84 U25l
 List of inspected electrical appliances, April 1916. 1916.
- Underwriters' Laboratories.** r 614.84 U25
 Organization, purpose and methods of Underwriters' Laboratories. 1916.
- Underwriters' Laboratories.** r 614.84 U25s
 Standards for cabinets and cutout boxes, including National electrical code specifications and standards of procedure in the label service for these appliances, March 1916. 1916.
- qr 614.8405 F51
 Fire and water engineering; a weekly journal devoted to fire protection, water supply and sanitation, 1903—June 1916. v.33—59. 1903—16.
- National Fire Protection Association.** r 614.8405 N15
 Quarterly, July 1911—date. v.5—date. 1911—date.
 An index to the printed records of the society, to June 1913, will be found in its "Publications," v.4 (r 614.84 N155p).
- Dana, Gorham.** 614.844 D19
 Automatic sprinkler protection. 1914. Groom.
 Deals with history, tests, installation and maintenance of sprinkling systems for fire extinction. Lists more than 250 types of sprinkler head, only a few of which are (1914) in actual use.

Lighthouses. Life-boats. Shipwrecks. Floods

United States—Lighthouses, Bureau of. r 614.865 U25b
 Lighthouse service bulletin [monthly], 1912–date. v.1–date. 1912–date.

United States—Lighthouses, Bureau of. r 614.865 U25r2
 Regulations for the United States lighthouse service, 1914. 1914.
The same, in force Sept. 1, 1911. 1911.....r 614.865 U25r
 These regulations supersede those prescribed by the secretary of commerce and labor, December 7, 1904.

United States—Lighthouses, Bureau of. r 614.865 U25u
 United States lighthouse service, 1915. 1916.
 Pamphlet discussing history, duties, organization, equipment and publications.

Methley, Noël T. 614.867 M64
 The life-boat and its story. 1912. Sidgwick.
 "Authorities," p.309.
 Very readable account of origin and development of the modern life-boat and of its field in the marine life-saving service of various countries.

Kimball, Sumner Increase. r 614.868 K25
 Organization and methods of the United States life-saving service; read before the committee on life-saving systems and devices, International Marine Conference, Nov. 22, 1889. 1912. U. S. Government.
 Concise outline in pamphlet form.

r 614.868 S79
Steamboat disasters and railroad accidents in the United States, to which are appended accounts of recent shipwrecks, fires at sea, thrilling incidents, etc. Rev. ed. 1846. Lazell.

United States—Commerce committee. r 614.868 U253t
 "Titanic" disaster; hearings before a subcommittee of the Committee on commerce, United States Senate, 62d congress, second session, pursuant to S. res. 283, directing the Committee on commerce to investigate the causes leading to the wreck of the White star liner "Titanic" [April 19–May 25, 1912]. 1912. (62d cong. 2d sess. Senate. Doc. no.726, v.28.)

Binder's title reads "Wreck of the steamship Titanic."

United States—Commerce committee. r 614.868 U253
 "Titanic disaster;" report, pursuant to S. res. 283 directing the committee to investigate the causes leading to the wreck of the White Star liner "Titanic," together with speeches thereon by W. A. Smith and Isidor Rayner. 1912. (62d cong. 2d sess. Senate. Report no.806.)

United States—Life-saving appliances board. r 614.868 U25
 Report. 1882–1914.

Later reports are included in the Annual reports of the Coast guard (r 387 U2539).

United States—Life-saving service. r 614.868 U25r

Rescuing flood victims in the middle western states; report of general superintendent of the life-saving service as to the services performed by the crews of said service in rescuing and succoring the victims of floods in the middle western states in April and March last [1913]. 1913. (63d cong. 1st sess. House. Doc. no.94.)

First aid to the injured

- Doty, Alvah Hunt.** 614.88 D75a
Manual of instruction in the principles of prompt aid to the injured, including a chapter on hygiene and disinfection; designed for civil and military use. Ed.5. 1913. Appleton.
Binder's title reads "Prompt aid to the injured."
- Gulick, Mrs Charlotte Emily (Vetter).** j 614.88 G96
Emergencies. 1909. Ginn. (Gulick hygiene series.)
What to do in case of accidents and how to avoid them.
- Kilmer, Frederick Barnett, ed.** 614.88 K25
Johnson's first aid manual; suggestions for prompt aid to the injured in accidents and emergencies. Ed.5, rev. 1912. Johnson.
Simple rules for accident avoidance and relief. Recommends remedies and preparations of the publishers.
- Moody, Charles Stuart.** 614.88 M87
Backwoods surgery & medicine. 1910. Outing.
Contents: How to treat fractures, sprains and dislocations.—Caring for burns, cuts, drowning and minor accidents.—Medical treatment of camp diseases.—Serpent wounds and their treatment.—The camper's medicine chest.
"My intention is to tell in the plainest and simplest manner possible how to render intelligent assistance to an injured comrade, using only the fewest appliances and those of the most primitive character. These hints are the result of over twenty years of life in the West." *Chapter 1.*
- Morrow, Albert Sidney.** r 614.88 M92
Immediate care of the injured. Ed.2, rev. 1912. Saunders.
After a preliminary discussion of anatomy and physiology author gives detailed instruction, with many illustrations, on methods of bandaging, transportation of injured, and on the practical treatment of all ordinary accidents. Considerable attention to dressings, medication and practical remedies.
- Swift, William James.** r 614.88 S97
First aid manual; what to do and how to do it, specially prepared with illustrations for the use of the layman in rendering necessary immediate first aid treatment of industrial injuries. 1915. Millers Mutual Casualty Insurance Co.
Directions are clear and simple. Author is (1915) chief surgeon of the Millers Mutual Casualty Insurance Company.
- Vogel, M.** 614.88 V36
Die erste hilfe bei unfällen, mit besonderer berücksichtigung der unfälle im bergbau und in den verwandten betrieben; hrsg. vom vorstand der Knappschafts-Berufsgenossenschaft in Berlin. Ed.3, rev. & enl. 1911.
Similar in scope to the better manuals in English. Gives outlines of anatomy and hygiene and describes treatment of all ordinary accidents and emergencies.

Hygiene of domestic animals

- Pennsylvania—State livestock sanitary board.** r 614.9 P39
Circular. no.22-46. 1912-16.
For no.1-21 see preceding catalogue, v.6.
- United States—Agriculture, Department of.** r 614.91 U25
Proceedings of a conference to consider means for combating foot-and-mouth disease, held at Chicago, Ill., Nov. 29-30, 1915. 1916.

615 *Materia medica. Therapeutics***Merck, E.**

r 615 M63

Annual report of recent advances in pharmaceutical chemistry and therapeutics, 1911-14. v.25-28. [1912-15.] Privately printed.

Napheys, George Henry.

r 615 N12

Modern medical therapeutics; a compendium of recent formulæ and specific therapeutical directions from the practice of eminent contemporary physicians, American and foreign. Ed.7, rev. & enl. 1880. Brinton. (Modern therapeutics series.)

Binder's title reads "Medical therapeutics."

Parke, Davis & Company.

r 615 P236c

Collected papers from the research laboratory, Parke, Davis & Co. Detroit; reprints. v.1-4. 1913-16.

Periodicals

American Pharmaceutical Association.

r 615.05 A5122

Journal [monthly], 1912-date. v.1-date. 1912-date.

Continues the "Proceedings" of the association (r 615.05 A51).

qr 615.05 D84

Druggists circular; a practical [monthly] journal of pharmacy and general business organ for druggists, 1914-date. v.58-date. 1914-date.

r 615.05 L71

Lilly scientific bulletin, April 1912-March 1916. no.1-7. 1912-16.

Issued at irregular intervals by Eli Lilly & Company.

Results of laboratory investigation in medicine and pharmacy.

Drugs

r 615.103 C42

Chemists' dictionary of synonyms and trade names; uniform with the Chemists' dictionary of medical terms and treatment. 1912. Chemist and Druggist.

Based on a dictionary printed in "Chemists' and druggists' diary," 1910.

American Medical Association.

r 615.11 A51

New and nonofficial remedies, 1913-14, containing descriptions of the articles which have been accepted by the Council on pharmacy and chemistry of the American Medical Association. 1913-14.

For volumes for 1909-12 see preceding catalogue, v.6.

r 615.11 P48

Pharmacopœia of the United States; 9th decennial revision; by authority of the National convention for revising the pharmacopœia, Washington, 1910. [v.9.] 1916.

For 5th-8th revision see preceding catalogue, v.1, 4.

United States—Hygienic laboratory.

r 614.05 U253

Digest of comments on the Pharmacopœia of the United States of America (eighth decennial revision) and the National Formulary (third

United States—Hygienic laboratory—*continued*. r 614.05 U253
 edition), for the calendar year ending Dec. 31, 1906—date. 1909—date.
 (In United States—Hygienic laboratory. Bulletin no.58—date.)

"List of the literature reviewed" in each issue of the digest.

Digests for 1906-13 are compiled by M. G. Motter and M. T. Wilbert, and for 1914—
 date by M. I. Wilbert alone.

Campbell, Milton, & Crawford, Joseph, comp. r 615.3 C15

Arrangement of animal and vegetable drugs of pharmacopœia 1880,
 according to the natural orders, common and officinal names, medical
 properties, dose, &c., with officinal preparations; for the use of stu-
 dents, pharmacists, physicians and others. 1883. Privately printed.

Mulford (H. K.) Company. r 615.3706 M95

Mulford's working bulletin. no.1-13. Ed.1-5. 1909-12.

With no.1-13 is bound "Biological products; antitoxins, curative sera, bacterins,"
 etc.

Hager, Hermann. r 615.4 H14

Handbuch der pharmaceutischen praxis für apotheker, ärzte, dro-
 gisten und medicinalbeamte; vollständig neu bearbeitet und hrsg. von
 B. Fischer und C. Hartwich. 2v. 1910.

The standard German work (1910).

Scoville, Wilbur Lincoln. r 615.4 S43a

Art of compounding; a text book for students and a reference book
 for pharmacists. Ed.4, rev. & enl. 1914. Blakiston.

Includes a chapter on homeopathic prescriptions.

Action of medicines

Anderson, James Hartley. r 615.732621 A54

Successful treatment of a bichloride poisoning case by hydraulic ir-
 rigation through cæcostomy operation. [1915. Pittsburgh.]

Reprint from "Surgery, gynecology and obstetrics," March 1915.

Forbes, Ernest Browning, & Keith, M. H. r 615.73916 F75

Review of the literature of phosphorous compounds in animal
 metabolism. 1914. (Ohio—Agricultural experiment station, Wooster.
 Bulletin; technical series, no.5.)

"Bibliography," p.589-709.

"Since the compounds of phosphorus have to do in prominent ways, with all of the
 life processes of animals, our subject, though narrow in form, might easily be construed
 to cover the whole field of nutrition." *Preface*.

Mind-cure. New thought

Anderson, John Benjamin. 615.851 A54

New thought; its lights and shadows; an appreciation and a criticism.
 1911. Sherman.

Bibliography, p.147-149.

Bruce, Henry Addington Bayley. 615.851 B82

Scientific mental healing. 1911. Little.

Contents: The evolution of mental healing.—Principles and methods.—Masters of
 the mind.—Hypnotism as a therapeutic resource.—Secondary selves.—Psychology and
 everyday life.—Half a century of psychical research.—William James, an appreciation.

Largely historical, dealing especially with methods and results of the last half cen-
 tury.

Herbalists

Brown, Oliver Phelps.

r 615.855 B79

Complete herbalist; or, The people their own physicians by the use of nature's remedies, describing the great curative properties found in the herbal kingdom. 1874. Privately printed.

Christian science

Eddy, Mrs Mary (Baker) Glover.

615.857 E26f

First Church of Christ, Scientist, and miscellany. 1914. Stewart.

Contains Mrs Eddy's messages to the Mother church in Boston and also matters connected with its history and with the building of the church edifice. Includes also messages to branch churches, and other writings.

Eddy, Mrs Mary (Baker) Glover.

615.857 E26w

Wissenschaft und gesundheit, mit schlüssel zur Heiligen schrift.

1913. Stewart.

English and German text.

New York City Christian Science Institute.

615.857 N26

Vital issues in Christian science; a record of unsettled questions which arose in the year 1909 between the directors of the First Church of Christ, Scientist, Boston, Massachusetts and First Church of Christ, Scientist, New York city. 1914. Putnam.

States the facts of the controversy regarding the practices of the New York branch and the teachings of Mrs Stetson, and defends the position taken by the New York church in maintaining its constitutional rights in the face of interference by the Boston directors.

Stetson, Mrs Augusta Emma (Simmons).

615.857 S84

Give God the glory, and other writings. 1911-12.

Poisons

England—Royal commission on arsenical poisoning. qr 615.926 E64

Report of the Royal commission appointed to inquire into arsenical poisoning from the consumption of beer and other articles of food or drink. v.2. 1901.

v.2. Final report with minutes of evidence and appendices.

On conditions in England and Wales.

Considers the epidemic of 1900, the suggested relation between beri-beri and arsenical poisoning, tests for arsenic in foods, etc., ways in which foods are liable to become contaminated by arsenic, precautions which should be taken by manufacturers, official control over purity of food, and permissible proportions of arsenic in food.

For v.1 see preceding catalogue, v.4.

Legge, Thomas Morison, & Goadby, K. W.

615.928 L54

Lead poisoning and lead absorption; the symptoms, pathology and prevention, with special reference to their industrial origin and an account of the principal processes involving risk. 1912. Arnold. (International medical monographs.)

"References" at the end of each chapter.

Authoritative and thorough. For physicians and specialists rather than for general readers.

"Dr. Goadby's chapters on the physiological aspect of lead poisoning are a piece of brilliant pathological investigation. He shows indisputably the paramount influence of the inhalation of dust." *Knowledge*, 1913.

Loeb, Leo, and others.

qr 615.94 L76

The venom of *Heloderma*. 1913. (Carnegie Institution of Washington. Publication no.177.)

616 Pathology. Disease

Bibliography

American Medical Association.

r 016.616 A51

List of books on the prevention of disease; issued by the Council on health and public instruction of the American Medical Association; comp. by the committee on medical literature of the Committee on public health education among women. [1912.] (Pamphlet no.6.)

General works

Councilman, William Thomas.

616 C83

Disease and its causes. 1913. Holt. (Home university library of modern knowledge.)

For the layman, but assumes that the reader has some knowledge of elementary anatomy and physiology. Attention given mainly to infectious diseases. There is slight consideration of the environment and social conditions as causes of disease.

Flint, Austin, 1812-86.

r 616 F64a

Treatise on the principles and practice of medicine, designed for the use of practitioners and students of medicine. Ed.5, rev. & rewritten. 1881. Lea.

Hutchinson, Woods.

616 H97c

Common diseases. 1913. Houghton.

Contents: The passing of pills and powders.—Home doctoring.—The advantages of adipose.—Dyspepsia.—Consider the liver.—Catarrh, our national nasal luxury.—Asthma and hay fever.—Filter mischief in the body; Bright's disease and other kidney troubles.—The unwisdom of worry.—Heads and hair; why we grow bald.—Heart disease.—Sea-sickness.—How we grow deaf.—Foot faults.—Our foot electrodes; thunderbolts that strike us through our feet.—The lesser perils of country life; snakes in the vacation Eden.—Insomnia and insomniacs.—Imaginary diseases and their inventors.—The prevention of old age.

Landesmann, Ernst, comp.

r 616 L22

Therapy of the clinics of the Royal and Imperial Hospital of Vienna, Austria; tr. and revised with notes by J. H. Metzertott. 1897. Fergus Printing Co.

Laurie, Joseph.

r 616 L37

Homœopathic domestic medicine; rev. and brought down to the present time by R. S. Gutteridge, to which is added a dictionary of medical terms and treatment. Ed.24. 1877. Leath.

Osler, Sir William.

r 616 O29a2

Principles and practice of medicine. Ed.7, rev. 1910. Appleton.

Ramaley, Francis, & Giffin, C. E.

616 R17

Prevention and control of disease. 1913. Privately printed.

"Concise, readable and generally accurate account of the cause and mode of transmission of the infectious diseases, with the mechanism of immunity and with the best methods of preventing these diseases." *American journal of public health*, 1913.

- Rosenau, Milton Joseph.** q 616 R72
Preventive medicine and hygiene. 1914. Appleton.
Contains also "Sewage and garbage," by G. C. Whipple, "Vital statistics," by C. L. Wilbur, and "Prevention of mental diseases," by T. W. Salmon.
The sameqr 616 R72
Aims "to give the scientific basis upon which the prevention of disease and the maintenance of health must rest." *Preface*.
Discusses prevention of communicable diseases; heredity; immunity; and environment in relation to disease, including all branches of sanitation. Each of the important communicable diseases is discussed separately.
- Thomas, Robert.** r 616 T37
Modern practice of physic, exhibiting the characters, causes, symptoms, prognostics, morbid appearances and improved method of treating the diseases of all climates. Ed.4, rev. & enl. 1817. Collins.
Contains also an appendix by David Hosack.
- United States—Education bureau.** r 616 U2533
Medical handbook [for the teachers of the Alaska school service], by Emil Krulish and D. S. Neuman. 1913.
- United States—Lighthouses, Bureau of.** r 616 U253a
Prevention of disease and care of the sick and injured; medical handbook for the use of lighthouse vessels and stations, 1915; revised by W. G. Stimpson, with a supplement on first aid to the injured by R. M. Woodward. 1915.
A revision of the "Handbook for the ship's medicine chest," prepared for United States public health and marine-hospital service by G. W. Stoner.
The same; revised by W. J. Pettus. 1912r 616 U253
Title reads "Medical handbook for the use of lighthouse vessels and stations."
- United States—Revenue-cutter service.** r 616 U2532
Medical handbook for the use of the revenue-cutter service; revised by W. J. Pettus. 1912.
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"By far the best general account of the microbes of health and disease that we have yet seen." *Knowledge*, 1912.

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Klotz, Oskar.

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Chapters are by experts in active service (1911).
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The tonsils and the voice in science, surgery, speech and song, with an introduction by G. M. Sleeth. 1913. Presbyterian Book Store. Pittsburgh.

Compilation presenting opinions of a large number of surgeons and professional singers. Deals with anatomy, functions, treatment and removal of the tonsils and is valuable as assembling the scattered literature on the subject, though the array of conflicting views renders it difficult to arrive at any definite conclusions.

Ferguson, Robert Henry, comp.

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 Uncinariasis (hookworm disease) in Porto Rico; a medical and economic problem, by B. K. Ashford and Pedro Gutiérrez Igaravidez, members of the former Porto Rico anemia commission, San Juan, Porto Rico, Aug. 5, 1910. 1911. (United States. 61st cong. 3d sess. Senate. Doc. no.808, v.59.)
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616.9681 R73r

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Contents: The physiology of the sympathetic in relation to the eye, by G. E. De Schweinitz.—The influence of resection of the cervical sympathetic ganglia in glaucoma, by W. H. Wilder.—Influence of resection of the cervical sympathetic in optic-nerve atrophy, hydrophthalmos and exophthalmic goiter, by J. M. Ball.—Pathology of the cervical sympathetic, by J. E. Weeks.

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Contents: Care of the eyes, by R. Pulleine.—Ophthalmia neonatorum, by M. W. Richardson.—Bulletin no.1-2, issued by the Massachusetts commission for the blind.—Reprints no.5 and 8 issued by the Massachusetts commission for the blind.

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pt.1. Die gewässerkunde, bearbeitet von J. F. Bubendey und anderen.

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Hodgson, Frederick Thomas.

620 H66

Mechanics indoors and out. 1911. Doubleday. (Children's library of work and play.)

Contents: A pathway of cement.—Building a boat-house.—Bridge and boat work.—Making a gasoline launch.—A talk about engines.—Propeller and other screws.—Aero-planes.—Kites, sundials, patents.—Tides.—Wall making and plumbing.—Some practical advice.—Mechanical movements.—The weather and indoor work.—Motors and type-writers.

The same......**j 620 H66**

Ryde, Edward.

r 620 R96

General text book for architects, engineers, surveyors, solicitors, auctioneers, land agents and stewards, containing theorems, formulæ, rules and tables in geometry, mensuration and trigonometry, to which are added several chapters on agriculture and landed property by Professor Donaldson. 1854. Weale.

Well arranged and well printed. So wide in scope that it forms an encyclopedia of civil engineering practice, especially as applied to construction, at time of publication.

Sganzin, Joseph Mathieu.

r 620 S52

Elementary course of civil engineering; tr. from the third French edition, with notes and applications adapted to the United States. Ed.3. 1837. Hilliard.

Williams, Archibald.

j 620 W74r

Romance of modern engineering. 1910. Lippincott.

Contents: The harnessing of Niagara.—The taming of the Nile.—Dams and aqueducts.—The Forth bridge.—The Tower bridge.—American bridges.—The Trans-Siberian railway.—Cairo to the Cape.—The loftiest railway in the world.—City railways.—The Severn tunnel.—The Simplon tunnel.—The Manchester ship canal.—The Panama canal.—Harbours of refuge.—Ocean leviathans.—Floating docks.—The romance of petroleum.—Artesian wells.

Well illustrated.

Economics

Dana, Richard Turner.

r 620.02 D19

Handbook of construction plant; its cost and efficiency. 1914.

Clark.

Information in regard to selection and cost of contractor's machinery, equipment and supplies.

Fish, John Charles Lounsbury.

620.02 F52

Engineering economics; first principles. 1915. McGraw.

"Bibliography and depreciation and life tables," p.149-175.

Deals with general principles rather than specific cases and should be studied in its entirety, but will also have considerable value for reference. Meritorious features are the completeness and clear arrangement of the table of contents, and the concise synopses preceding chapters. In his consideration of economic selection of engineering structures author presents many topics, including the following: interest, sinking funds and other financial problems, items of first cost, depreciation, salvage, elements of cost of maintenance and practice of estimating. Solves a few definite problems of economic selection in civil and mechanical engineering.

Contracts and specifications

Blenkarn, John.

r 620.03 B54

Practical specifications of works executed in architecture, civil and mechanical engineering and in roadmaking and sewerage, to which are added a series of practically useful agreements and reports. 1865. Spon.

Hauer, Daniel Jacob.

620.03 H34

Economics of contracting; a treatise for contractors, engineers, superintendents and foremen engaged in engineering contracting work. 2v. 1911-15. Baumgartner.

"Books for contractors," v.1, p.259-269.

Author is an engineer and contractor of fully 25 years' experience. Formerly editor of the "Dirt mover," and after this journal was absorbed by "Engineering-contracting," continued on editorial staff of the latter. Resigned to give attention to his growing practice as an adviser to contractors, being perhaps the first consulting contractor and the founder of a new profession. *Condensed from Journal of the Western Society of Engineers, 1912.*

Kirby, Richard Shelton.

620.03 K28

Elements of specification writing; a text-book for students in civil engineering. 1913. Wiley.

"References," p.114-120.

Excellent text-book, giving concisely the fundamental principles of a construction contract, with its attendant plans and specifications.

Young, Clarence R.

620.03 Y36

Principles of specification and agreement writing. 1912. Canadian Engineer.

Reprinted from the "Canadian engineer."
Brief general treatment.

Dictionaries

Byrne, Oliver, ed.

qr 620.3 B99

Dictionary of machines, mechanics, engine-work and engineering, designed for practical working men and those intended for the engineering profession. 2v. 1850-51. Appleton.

Caspar, Carl Nicolaus, comp.

r 433.2 C25

Technical dictionary, English-German and German-English; comprising the most important words and terms employed in technology, engineering, machinery, chemistry, navigation, shipbuilding, electro-technics, automobilism, aviation, etc. 1914. Privately printed.

German title reads "Technologisches wörterbuch, deutsch-english und english-deutsch."

Essays

Congress of Technology, Boston, 1911.

620.4 C74

Technology and industrial efficiency; a series of papers presented at the Congress of Technology opened in Boston, Mass. April 10, 1911, in celebration of the 50th anniversary of the granting of a charter to the Massachusetts Institute of Technology. 1911. McGraw.

Contents: Scientific investigation and control of industrial processes.—Technological education in its relations to industrial development.—Administration and management.—Recent industrial development.—Public health and sanitation.—Architecture.

Sixty-seven papers by graduates with practical experience.

Fairbairn, Sir William.

r 620.4 F15

Useful information for engineers; being a series of lectures delivered before the working engineers of Yorkshire and Lancashire, together with a series of appendices containing the results of experimental inquiries into the strength of materials, the causes of boiler explosions, etc. 2v. 1860-64. Longman.

Lectures delivered before various educational institutions of the north of England.

Waddell, John Alexander Low, & Harrington, J. L. ed.

620.4 W11

Addresses to engineering students. 1911. Privately printed.

The same r 620.4 W11a

Selected addresses by college professors and practicing engineers. Devoted in general to engineering education, engineering literature, professional ethics and the work of the engineer. Extremely valuable as a supplement to the regular instruction in engineering courses.

Periodicals

American Society of Mechanical Engineers.

r 016.6205 A51

List of periodical sets; library engineering societies, 1913 [comp. by A. J. Gates]. 1913.

- qr 620.5 A65
- Appletons' mechanics' magazine and engineers' journal** [monthly], 1851-53. v.1-3. 1852-54.
No more published.
- qr 620.5 C4962
- Der Civilingenieur**; zeitschrift für das ingenieurwesen [1865-72]. New ser. v.12-19, in 8. 1866-73.
v.12-19 ed. by K. R. Bornemann.
Continuation of "Der Ingenieur."
- r 620.5 C582
- Cleveland Engineering Society.**
Journal [bimonthly], 1908-date. v.1-date. 1908-date.
v.1 was issued in three numbers; no.1 title reads "Transactions, the Civil Engineers' Club of Cleveland," no.2-3 "Transactions, the Cleveland Engineering Society."
v.2-4 issued quarterly.
- r 620.5 C722
- Colorado College publications; engineering series.** v.1, no.13-16. 1915.
For v.1, no.1-12, see preceding catalogue, v.6.
- r 620.5 E6433P
- Engineers' Society of Western Pennsylvania.**
Partial list of papers recently presented before the society. [1915.]
Pittsburgh.
- qr 620.5 G29
- Le Génie civil**; revue générale des industries françaises et étrangères; table générale des matières, v.21-40, May 1892-April 1902; v.41-60, May 1902-April 1912.
For index for v.1-20 and for volumes of magazine see preceding catalogue, v.1.
- r 620.5 I2422
- Indiana Engineering Society.**
Annual report (33d), 1913.
Includes Proceedings of the 33d annual meeting, 1913.
For v.12-31 see preceding catalogue, v.6.
- qr 620.5 I2424
- Industrial arts index**; annual cumulation (1st-date); subject index to a selected list of engineering and trade periodicals for 1913-date. [1914]-date. Wilson.
- r 620.5 E643e
- Industrial management** [monthly], Nov. 1916-date. v.52, no.2-date. 1916-date.
For v.1-52, no.1 see preceding catalogue, v.1, under title "Engineering magazine."
- r 620.5 I25
- Iowa Engineering Society.**
Proceedings of the annual meeting (25th-28th), 1913-16.
For v.1-24 see preceding catalogue, v.6.
- r 620.5 I259
- Iowa State College of Agriculture and the Mechanic Arts**—Engineering experiment station.
Bulletin. no.24, 26-34, 36-45. 1909-16.
No.24 has been catalogued separately (r 628.3 M42).
- qr 620.5 M72s
- Minnesota University.**
Studies in engineering, 1915. no.1-3. 1915.
- r 620.5 M74
- Missouri University.**
Bulletin; engineering experiment station series 1910-16. no.1-18. 1910-16.
No.1-13 were published as v.1-4.
No.15 wanting.
For contents see Contents book kept at the reference desk.

- r 620.5 P77
- Polytechnic engineer**; published annually by the undergraduates of the Polytechnic Institute of Brooklyn, 1913-14. v.13-14. 1913-14.
For v.10-12 see preceding catalogue, v.6.
- Purdue University.** r 620.5 P98
Publications of the engineering departments. v.1, no.1-3. 1915-16.
- Rensselaer Polytechnic Institute, Troy, N. Y.** r 620.5 R34
Engineering and science series. no.1, 3-8. 1911-16.
- United States—Engineers corps.** r 620.5 U25
Professional memoirs; quarterly, 1909-date. v.1-date. [1909]-date.
——Index, v.1-5, 1909-13.
- Western Society of Engineers.** r 620.5 W56
Journal; index, v.1-20, 1896-1915.
For volumes of journal see preceding catalogue, v.1.
- qr 620.5 W812
- Wisconsin engineer** [monthly], Oct. 1913-date. v.18-date. 1913-date.

Societies

- Engineers' Society of Pennsylvania.** r 620.6 E6432
Year book, 1915-16. [1915-16.]
- Philadelphia, Engineers' Club.** r 620.6 P49
Directory, 1912-16 [charter and by-laws 1912-16].
For earlier volumes see preceding catalogue, v.4, 6.

Technical writing. Engineering education

- Earle, Samuel Chandler.** 620.7 E17
Theory and practice of technical writing. 1911. Macmillan.
The same.....r 620.7 E17
Study of principles and their application and of illustrative examples in scientific and technical literature. Considers writing for the specialist and for the general reader.
- Fleming, Arthur Percy M. & Bailey, R. W.** 620.7 F62
Engineering as a profession; scope, training and opportunities for advancement. [1913.] Long.
Refers to conditions in England. Gives broad, general outline of the field of engineering, with particulars as to courses at different universities and colleges, and compares engineering with other recognized professions.
- McCullough, Ernest.** 620.7 M14
Engineering as a vocation. 1911. Williams.
Contents: The engineer.—The work of the engineer.—The education of the engineer.—Home study courses.—How to hunt and hold a job.—Does it pay to study engineering?—The opinions of engineering editors.
Author has an intimate practical knowledge of civil engineering and contracting. Discusses the history, scope and present trend of the profession of engineering and the training and remuneration of engineers. Chapter on "Home study courses," gives brief, suggestive lists of books for self instruction.

- Newell, Frederick Haynes, & Drayer, C. E. ed.** 620.7 N27
Engineering as a career; a series of papers by eminent engineers.
1916. Van Nostrand.

The same r 620.7 N27

Brief papers outlining the opportunities in various branches of engineering. Not all of the authors have treated their subjects satisfactorily, but the book is nevertheless a useful addition to the scanty literature of the subject.

- Society for the Promotion of Engineering Education.** r 620.7 S67b
Engineering education; bulletin of the Society for the Promotion of
Engineering Education, Sept. 1911–date. v.2–date. 1911–date.
Issued monthly except July–Aug.

- Society for the Promotion of Engineering Education.** r 620.7 S67
Proceedings; index, v.1–20, 1893–1912.
For volumes of proceedings see preceding catalogue, v.1.

- Sypherd, Wilbur Owen.** 620.7 S99
Handbook of English for engineers. 1913. Scott, Foresman.
“Bibliography,” p.306–310.
Guide for students and young engineers in the preparation for writing business
letters, reports, technical papers, etc. Many examples from technical literature.

- Telleen, John Martin.** r 620.7 T27
Printed engineering resources. [1914.]
Reprinted from the “Bulletin of the Society for the Promotion of Engineering Edu-
cation,” v.5, no.3, 1914.
Discusses the importance of technical literature, and indicates the resources and ac-
tivities of the more important technical libraries of the United States.

- Wadsworth, Marshman Edward.** r 620.7 W12
[Technical education; a collection of pamphlets.] 1894–97.
Contents: The elective system in technological schools.—The elective system in en-
gineering colleges.—Some statistics of engineering education.—A paper on the Michigan
Mining School.—The elective system as adopted in the Michigan Mining School.—The
Michigan College of Mines.—Methods of instruction in mineralogy.—Annual report of
the director of the Michigan Mining School, 1894/95.—Report of M. E. Wadsworth,
president of the Michigan Mining School, for 1896.
Contains “List of publications of M. E. Wadsworth, 1877–85.”

History of engineering

qr 620.9 R26

- Record of the progress of modern engineering, comprising civil, me-
chanical, marine, hydraulic, railway, bridge and other engineering
works, with other essays and reviews; ed. by William Humber [1863]–
65. v.1–3. 1864–66.**

620.1 Strength of materials

- American Society for Testing Materials.** r 620.1 A51
Proceedings of the annual meeting; index, v.1–12, 1898–1912.
For volumes of proceedings see preceding catalogue, v.4.
- Boyd, James Ellsworth.** 620.1 B668
Strength of materials. 1911. McGraw.
Author is (1911) professor of mechanics, Ohio State University. Contains prob-
lems. Requires considerable knowledge of calculus and theoretical mechanics. Designed
for use with “Cambria steel” handbook (r691.7 C14c2), to which frequent reference is
made.

- Burr, William Hubert.** 620.1 B94e2
Elasticity and resistance of the materials of engineering. Ed.7, rev. 1915. Wiley.
- Hatt, William Kendrick, & Scofield, H. H.** r 620.1 H34
Instructions for experiments in laboratory for testing materials, Purdue University. 1911. Privately printed.
"Pamphlet...prepared...to free the instructor from detailed direction of students, and so to leave time for conference with them concerning matters of greater educational concern." *Prefatory note.*
- Hatt, William Kendrick, & Scofield, H. H.** 620.1 H34
Laboratory manual of testing materials. 1913. McGraw.
Deals in detail with apparatus and methods for laboratory testing. Useful only for laboratory instruction and is for the student rather than the engineer.
- Holmes, Urban Tigner.** r 620.1 H73
Experimental engineering. 1911. U. S. Naval Institute.
Brief course, consisting in a study of instruments and measurements, and methods of testing materials and machines.
- International Association for Testing Materials.** r 620.1 I248 v.2
Index of literature on testing materials. 1911-12. (In its Proceedings, v.2, no.3, 6.)
- International Association for Testing Materials** r 620.1 I2482
Congress (5th), Copenhagen, 1909.
Review of the congress; reports laid before the congress; discussions in congress; by-laws and members' list of the association. [1910.]
- International Association for Testing Materials** r 620.1 I2483
Congress (6th), New York, 1912.
[Proceedings.] 2v. [1912.]
v.1. Review of the congress.—Organization.—Opening and closing meetings.—Papers on metals.—Discussions of section A.
v.2. Papers on cements, stones, concrete and various subjects.—Discussions of sections B and C.—List of members and by-laws of the International Association for Testing Materials.
- Murdock, Harvey Ellison.** 620.1 M97
Strength of materials. 1911. Wiley.
Small book aiming to make clear the basic principles, without use of the calculus.
- Pullen, William Wade Fitzherbert.** 620.1 P98
Testing of engines, boilers and auxiliary machinery; a treatise on the construction and use of the instruments and methods employed in the testing of prime movers in the laboratory and workshop. Ed.2. 1911. Scientific Pub. Co.
First published as v.1 of "Experimental engineering."
- United States—Arsenal, Watertown.** r 620.1 U25
Report of the tests of metals and other materials for industrial purposes made with the United States testing machine at Watertown arsenal, Massachusetts; index, 1881-1912.
For volumes of report see preceding catalogue, v.1.
- Upton, George Burr.** 620.1 U26
Structure and properties of the more common materials of construction. 1916. Wiley.
Text-book on theory of mechanical and microscopic tests.

Whildin, Joseph K. *comp.*

r 620.1 W62

Memoranda on the strength of materials used in engineering construction. 1860. Van Nostrand.

American Society for Testing Materials.

r 620.106 A51

Membership list, list of standards, charter and by-laws, list of standing committees, 1913-16. 1913-16.

Affiliated with the International Association for Testing Materials.

Roux, J.

qr 620.1072 R78

Les laboratoires industriels d'essais en Allemagne; rapport, préface du Dr d'Arsonval. 1913.

Being report submitted to the Chambre de Commerce de Limoges.

Tests of special materials

Engineering Standards Committee.

qr 691.7 E64

Report on the influence of gauge length and section of test bar on the percentage of elongation, by W. C. Unwin. 1903. (British standard sections, no.3.)

Bound with its "Equal angles, unequal angles, etc."

Frémont, Charles.

r 620.123141 F92

La fatigue des métaux et les nouvelles méthodes d'essais. 1910.

Extrait du "Génie civil" des 22, 29 octobre, 19 et 26 novembre 1910.

Engineering Standards Committee.

qr 620.1281 E64

Report on hard drawn copper and bronze wire. 1911. (British standard sections no.55.)

Experiments relate only to wires of relatively small cross-section, for telegraph and telephone purposes.

Association of American Portland Cement Manufacturers, *pub.*

r 620.131 A84

Standard methods of testing and specifications for cement. [1912.]

Contents: United States government specification for Portland cement.—Standard specifications for cement of the American Society for Testing Materials.—Methods for testing cement; report of the committee of the American Society of Civil Engineers.—Chemical analyses.

Dibdin, William Joseph.

r 620.131 D54

The composition and strength of mortars; report on the results of the experimental investigation conducted for the Science standing committee of the Royal Institute of British Architects. 1911. Royal Institute of British Architects.

Results of extensive physical and chemical examination of mortars specially prepared and tested in connection with the present investigation. Records also, for purposes of comparison the properties of various ancient mortars which have given satisfactory service.

Germer, Hermann.

qr 620.131 G32

Einfluss höherer temperaturen auf die festigkeit von mörtel, mauerwerk und beton. 2v. 1911.

v.1. Text.

v.2. Tafeln.

- Germer, Hermann.** qr 620.131 G32e
Einfluss niederer temperaturen (frost) auf die festigkeit von mörtel, mauerwerk und beton. 2v. 1911.
v.1. Text.
v.2. Tafeln.
- Germer, Hermann.** qr 620.131 G32m
Mauerwerksuntersuchungen. 2v. 1910.
v.1. Text.
v.2. Tafeln.
Supplementary to author's "Mörteluntersuchungen." Tests of influence of conditions and materials on the properties and strength of masonry work and building materials. Graphic representation.
- Müller, Willy.** qr 620.131 M96
Über den elektrischen widerstand von nichtbewehrten beton und seinen einzelbestandteilen. 1911.
Von der Technischen Hochschule zu Darmstadt zur erlangung der würde eines doktor-ingenieurs genehmigte dissertation.
Researches on concrete, mortar and cement.
- Pittsburgh Testing Laboratory.** r 620.131 P67
Standard specifications for cement, reinforcement bars and concrete.
- Goss, Oliver Perry Morton, & Heinmiller, Carl.** r 620.136 G69
Structural timber hand book on Pacific coast woods. 1916. West Coast Lumbermen's Assoc.
Data on properties and uses, for architects, engineers, and contractors.
- Record, Samuel James.** 620.136 R26
Mechanical properties of wood, including a discussion of the factors affecting the mechanical properties and methods of timber testing. 1914. Wiley.
"Bibliography," p.147-160.
The same r 620.136 R26
Concise work, based largely on practice in the United States forest service. Gives results of some tests.

Civil engineering

- Smeaton, John, 1724-92.** qr 620.2 S63
Reports of the late John Smeaton made on various occasions in the course of his employment as a civil engineer. Ed.2. 2v. in 1. 1837. Taylor.

Calculations. Pocket-books

- Frye, Albert Irvin.** r 620.8 F97
Civil engineers' pocket-book; a reference-book for engineers, contractors and students, containing rules, data, methods, formulas and tables. 1913. Van Nostrand.
Contains an immense amount of information, much of which is new. Includes references to literature.

International Correspondence Schools, Scranton, Pa. 620.8 I24

Mechanics' handbook; a convenient reference book for all persons interested in mechanical engineering, steam engineering, electrical engineering, railroad engineering, hydraulic engineering, bridge engineering, etc. Ed.7. 1904.

Binder's title reads "I. C. S. handbook for mechanics."

Compilation giving brief practical information on branches of mechanical and electrical engineering and surveying, which are treated more fully in the correspondence courses of this school.

Lukens Iron and Steel Company, Coatesville, Pa. r 620.8 L97

The first to make boiler plates in America, Lukens Iron and Steel Company. [Ed.4.] 1912.

Brief history of the company, with tables and general engineering data.

MacNeill, Sir John Benjamin. r 620.8 M21

Tables for facilitating the calculation of earth work in the cuttings and embankments of railways, canals and other public works. Ed.2, enl. 1846. Hodges.

Merriman, Mansfield, and others, ed. r 620.8 M63a

American civil engineers' pocket book. Ed.3, enl. 1916. Wiley.

First real rival to "Trautwine." Editors of the various sections are among the highest American authorities on their respective subjects.

Molesworth, Sir Guilford Lindsey, & Molesworth, r 620.8 M78

H. B. comp.

Pocket-book of useful formulæ & memoranda for civil, mechanical and electrical engineers, with an electrical supplement by W. H. Molesworth. Ed.27, rev. & enl. 1913. Spon.

The standard British engineering pocket-book.

Trautwine, John Cresson. r 620.8 T69a2

Civil engineer's pocket-book. Ed.19 [rev. & enl.]. 1913. Trautwine.

Condensed practical information upon all branches of engineering, a standard reference book.

Trautwine, John Cresson. r 620.8 T69n

New method of calculating the cubic contents of excavations and embankments by the aid of diagrams. Ed.2, rev. 1853. Barnard.

621 Mechanical engineering

Machine design. Applied mechanics

Campin, Francis. r 621 C16

Practical treatise on mechanical engineering, with an appendix on the analysis of iron and iron ores. 1866. Baird.

Duncan, John, *mechanical engineer.* 621 D89a

Applied mechanics for beginners. [Rev. ed.] 1914. Macmillan.

A practical statement of its principles for students of engineering. Uses only simple mathematics.

r 621 E64

Engineering facts and figures for 1865; annual register of progress in mechanical engineering and construction; ed. by A. B. Brown. 1866. Fullarton.

Freytag, Fr.

r 621 F94

Hilfsbuch für den maschinenbau, für maschinentechniker sowie für den unterricht an technischen lehranstalten. Ed.4, rev. & enl. 1912.

Well illustrated guide to design and construction of machine parts, electric apparatus, prime movers and power plant equipment, with section on building construction.

Giorli, Ezio.

r 621 G43

Il meccanico, per uso capitecnici, capimeccanici, disegnatori, elettricisti, conduttori di caldaje a vapore, scuole macchinisti ferrovie, scuole professionali, industriali, d'arti e mestieri, ecc. Ed.6, rev. 1910.

Goodman, John.

621 G62a

Mechanics applied to engineering. 1913. Longmans.

"We recommend the book as a compact and concise exposition." *Engineering news*, 1899.

International Correspondence Schools, Scranton, Pa.

621 I248l

Link mechanisms, gearing, gear trains and cams, pulleys and belting, materials of construction, strength of materials, the testing of materials, machine design. 1908. International Textbook Co. (International library of technology, v.5B.)

Based on correspondence school course.

Kennedy, Rankin.

qr 621 K18

Modern engines and power generators; a practical work on prime movers and the transmission of power, steam, electric, water and hot air. v.1-5. [1905.] Caxton Pub. Co.

Each volume is devoted to a special subject: v.1, Turbines; v.2, Heat engines; v.3, Gas engines; v.4, Steam engines and v.5, Marine engines.

Low, David Allan, & Bevis, A. W.

621 L95a

Manual of machine drawing and design. Rev. & enl. ed. 1910. Longmans.

Machinery.

r 621 M16

Don'ts for draftsmen and machinists. Enl. ed. 1912.

Pamphlet giving many suggestions.

Massachusetts Institute of Technology.

r 621 M45

Illustrations of steam engines, steam turbines, pumping engines, pumps of different classes and other machines using steam or compressed air; prepared for the use of students. 2v. 1913.

v.1. Illustrations.

v.2. Text.

Diagrammatic illustrations, with brief explanatory text.

Smallwood, Julian Chase.

621 S635

Mechanical laboratory methods; the testing of instruments and machines in the mechanical engineering laboratory and in practice. 1914. Van Nostrand.

Concise work on the broad principles of experimental apparatus and methods. Takes up testing of instruments, study of combustion and testing of power-plant units.

Smith, Albert William.

621 S64a

Materials of machines. Ed.2, rewritten. 1914. Wiley.

Contents: Preliminary consideration of fuels.—Electric furnaces.—Refractory materials.—Outline of the metallurgy of iron and steel.—Outline of the metallurgy of copper, lead, tin, zinc and aluminum.—Testing materials.—The equilibrium diagram of iron and carbon.—Cast iron.—Steel.—Heat treatment of steel.—Non-ferrous alloys.—Selection of materials for machines.

- Smith, Albert William, & Marx, G. H.** 621 S64m3
Machine design. Ed.4, rev. & enl. 1915. Wiley.
Text-book characterized by logical arrangement, conciseness and clearness of statement.
- Spooner, Henry John.** r 621 S76
Machine design, construction and drawing; a text-book for the use of young engineers. Ed.2, rev. 1910. Longmans.
Begins with mechanical drawing and describes British drafting-room methods. Most of the book, however, is devoted to a very full treatment of machine details. Especially valuable for reference.
Somewhat similar in scope to Reuleaux's "Constructor."
- Unwin, William Cawthorne.** 621 U25a
Elements of machine design. Rev. & enl. ed. v.2. 1912. Longmans.
(Text-books of science.)
v.2. Chiefly on engine details, by W. C. Unwin and A. L. Mellanby.
The same. Rev. & enl. ed. v.2. 1912.....r 621 U25a
For v.1 see preceding catalogue, v.6.
- Barber, Thomas Walter.** 621.004 B23a
Engineer's sketch-book of mechanical movements, devices and details employed in the construction of machinery. Ed.5, rev. & enl. 1906. Spon.
Classified collection of sketches of over 2,500 mechanical movements, etc. A useful aid to designers, inventors and mechanics.
- American Society of Mechanical Engineers.** r 621.02 A51
Condensed catalogues of mechanical equipment, with mechanical equipment directory, 1912-17. 1st-7th annual volume. 1912-17.
- Booth, William Henry.** 621.0241 B63
Steam pipes; their design and construction; a treatise of the principles of steam conveyance and means and materials employed in practice, to secure economy, efficiency and safety. 1906. Constable.
Follows British practice. Gives considerable space to tables and formulas.
- Vulcan Boiler and General Insurance Co. Manchester, England.** r 621.0241 V39
Steam pipes; their construction and arrangement.
Trade literature. Practical book, based on the company's actual experience.

Periodicals. Study and teaching

- American Society of Mechanical Engineers.** qr 621.05 A5123j
Journal [monthly], 1911-date. v.33-date. 1911-date.
- Institution of Mechanical Engineers.** r 621.05 I24
Proceedings; general index, v.36-59, 1885-1900; v.60-74, 1901-10.
For indexes for v.1-35 and for volumes of proceedings, see preceding catalogue, v.1.
qr 621.05 S72
- Southern machinery [monthly],** May 1911-Jan. 1915. v.26-33. 1911-15.
In Jan. 1911 "Modern machinery" was consolidated with this magazine.
Beginning with Feb. 1915 "Southern machinery" consolidated with the "Tradesman" to form "Iron tradesman."

Westinghouse Machine Company, East Pittsburgh, Pa. r 621.07 W56
Engineering apprenticeship system [a description of the course of training given by the Westinghouse Machine Company for technical graduates]. East Pittsburgh, Pa.

Tables. Pocket-books

Halsey, Frederic Arthur. qr 621.08 H18a
Handbook for machine designers, shop men and draftsmen. Ed.2. 1916. McGraw.

The same. 1913.....qr 621.08 H18
Title reads "Handbook for machine designers and draftsmen."
Exhaustive treatise presenting a large amount of data on practically every branch of design of machinery and machine parts.

Kent, William, b. 1851. r 621.08 K19a2
Mechanical engineer's pocket-book; revised with the assistance of R. T. Kent. Ed.9. 1916. Wiley.

Machinery. r 621.08 M16
Machinery's handbook for machine shop and drafting-room; a reference book on machine design and shop practice for the mechanical engineer, draftsman, toolmaker and machinist. 1914. Industrial Press.
Comprehensive reference work containing much information not hitherto available in book form.

Marks, Lionel Simeon, and others, ed. r 621.08 M39
Mechanical engineers' handbook; based on the Hütte and prepared by a staff of specialists. 1916. McGraw.

The *mechanical engineering* portions of the "Hütte" have largely determined the material to be included, which has, however, been revised and adapted to American practice. Represents the collaboration of 50 engineers, among them many recognized as authorities, and one claim of superiority is that coöperation has secured representative rather than individual practice.

Millers Falls Company, Millers Falls, Mass. r 621.08 M69
Millers Falls handbook for mechanics; comp. by E. R. Markham. 1916.
Miscellaneous information, mainly on carpentry and shopwork.

Steam engineering

Allen, John Robins, & Bursley, J. A. 621.1 A42
Heat engines; steam, gas, steam turbines and their auxiliaries. Ed.2, rev. 1914. McGraw.
Elementary. Mainly descriptive, avoiding theory.

Booth, Charles Edwin, (pseud. Gideon Harris), and others. 621.1 B63
Audels answers on practical engineering for engineers, firemen, machinists, and those desiring to acquire a working knowledge of the theory and practice of steam engineering; a practical treatise by Gideon Harris and associates. 1912. Audel.

Catechism of practical steam-power plant work. Intended mainly for use in preparing for engineer's license examinations. Defective in wording and arrangement.

- Garratt, Herbert Alfred.** 621.1 G19
Heat engines. 1912. Arnold.
Deals largely with details of steam and gas engines. Confined to British commercial types.
- Goodeve, Thomas Minchin.** r 621.1 G62
Text-book on the steam engine, with a supplement on gas engines and on heat engines. Ed.14. 1898. Lockwood.
- Hirshfeld, Clarence Floyd, & Barnard, W. N.** 621.1 H612
Elements of heat-power engineering. 1913. Wiley.
Theory of generation of power from heat. Takes up thermodynamics of steam-engine, steam-turbine and internal combustion engine. Discusses power-plant accessories and fuels, but is not concerned with mechanical design.
- Inchley, William.** 621.1 I242
Theory of heat engines. 1913. Longmans.
"An attempt has here been made to give in a complete and concise form the thermodynamical and mechanical principles of the subject; to that end all purely descriptive matter has been designedly omitted." *Preface.*
- Jamieson, Andrew.** r 621.1 J17
Text-book on steam and steam engines, including turbines and boilers. Ed.14, rev. 1904. Griffin.
- Ludy, Llewellyn V.** 621.1 L97
Steam engines; a thorough and practical presentation of modern steam engine practice. 1915. Amer. Technical Society.
Brief, elementary text, considering construction and operation. Mainly descriptive.
- Potter, Andrey Abraham.** 621.1 P85
Farm motors; steam and gas engines, hydraulic and electric motors, windmills. 1913. McGraw. (Agricultural engineering series.)
Discusses practical operation. Does not describe application to agricultural work.
- Ripper, William.** r 621.1 R49
Steam. 1903. Longmans. (Longmans' elementary science manuals.)
- Sewell, John.** r 621.1 S51
Elementary treatise on steam and the steam-engine, stationary and portable; an extension of the "Elementary treatise of steam" of John Sewell, by D. K. Clark. Ed.4. 1892. Lockwood. (Weale's scientific & technical series.)
- Spangler, Henry Wilson, and others.** 621.1 S73a2
Elements of steam engineering. Ed.3, rev. & enl. 1914. Wiley.
Gives examples of the various forms of steam apparatus, and explains briefly the construction, use and reasons for using these various parts or machines. Very elementary.
- Stumpf, Johann.** qr 621.1 S93
Die gleichstrom-dampfmaschine. 1911.
Discusses construction and numerous applications of author's "parallel-flow" steam-engine, for which many advantages are claimed.

Power-plants

- Allsop, Robert Owen.** qr 621.101 A44
Engineering work in public buildings; power, lighting, heating, ventilation, water supply. 1912. Spon.
Buildings considered are hospitals, asylums and others of an institutional nature.

American Society of Mechanical Engineers. r 621.101 A51
Rules for conducting performance tests of power plant apparatus; codes of 1915, report of Power test committee. [1916.]

Binder's title reads "Power test code."

Comprehensive set of testing codes relating to boilers; reciprocating steam-engines; steam turbines; pumping machinery; compressors, blowers and fans; complete steam power plants; locomotives, gas producers, gas and oil engines and water wheels.

Barth, Friedrich. 621.101 B27

Die zweckmässigste betriebskraft. 3v. 1904-10.

v.1. Die mit dampf betriebenen motoren.

v.2. Verschiedene motoren.

v.3. Elektromotoren, betriebskostentabellen, graphische darstellungen, wahl der betriebskraft.

"Literatur-verzeichnis," v.1, p.2; v.2, p.6.

Bolton, Reginald Pelham. q 621.101 B61

Power for profit; principles governing the use of machinery and labor in modern buildings. 1915. De Vinne Press.

Consideration of the desirability of installing and operating mechanical plant in buildings for rental, and of the relative economy of purchasing service from outside sources. Indicates that in many cases central station service is preferable.

Dalby, William Ernest. 621.101 D15

Steam power. 1915. Arnold.

A monumental work. Exhaustive and highly technical treatment of the scientific principles (both dynamic and thermodynamic) involved in the industrial applications of steam power. Considerable attention to locomotive design and operation. Centigrade scale is used.

Gebhardt, George Frederick. 621.101 G26a2

Steam power plant engineering. Ed.4, rewritten. 1913. Wiley.

Unusually complete and reliable treatise on the present state of steam engineering, including every thing but the actual design of boilers and engines. Concise and well arranged.

Hubbard, Charles Lincoln. 621.101 H87

Steam power plants; a treatise for designing and constructing engineers, architects and students. Ed.2, rev. 1914. McGraw. (Power, heating and ventilation, pt.1.)

Elementary and practical. Partly rewritten from author's magazine articles.

Miller, Edward Furber. q 621.101 M69

Notes on power plant design; prepared for the use of students in the Mechanical engineering department of the Massachusetts Institute of Technology. 1915.

Useful data on lay-out and equipment. Compiled in part from standard text-books, trade catalogues, and transactions of the American Society of Mechanical Engineers.

Moyer, James Ambrose. 621.101 M94a

Power plant testing; a manual of testing engines, turbines, boilers, pumps, refrigerating machinery, fans, fuels, materials of construction, etc. Ed.2, enl. & rewritten. 1913. McGraw.

The same. 1911.....621.101 M94

The same. 1911.....r 621.101 M94

Condensed work on experimental engineering. Confined to prime movers and auxiliary machinery, and thus less comprehensive than the books on experimental engineering by Carpenter (621 C22) or Pullen (620.1 E985), but clearer and more concise than either.

Myers, David Moffat.

621.101 M99

Preventing losses in factory power plants. 1915. Engineering Magazine Co. (Works management library.)

Written primarily for the owner or the manager, not for the purpose of enabling him to undertake personally the technical investigation of power-plant economy, but with a view to interesting him in the important results of intelligent investigation in this line.

Royds, Robert.

621.101 R81

Testing of motive-power engines, including steam engines and turbines, locomotives, boilers, condensers, internal combustion engines, gas producers, refrigerators, air compressors, fans, pumps, etc. 1911. Longmans.

Primarily for engineering students, but useful also in practical work.

"Little or no attempt has been made to describe mechanical features of different types of engines, or to interpret the action of an engine from a consideration of indicator diagrams." *Preface.*

Snell, John Francis Cleverton.

621.101 S67

Power house design. 1911. Longmans. (Longmans' electrical engineering series.)

The same.....r 621.101 S67

Comprehensive and valuable. British. Describes buildings, machinery and apparatus, considering best practice throughout.

Tenney, Edward Henry.

621.101 T29

Test methods for steam power plants; a reference book for the use of power station engineers, superintendents and chemists. 1915. Van Nostrand.

Well prepared book on systematic testing of coal, economy of combustion, feed-water, efficiency of evaporation, and prime-movers.

Steam-engine design

Heck, Robert Culbertson Hays.

621.11 H39a

Steam engine and turbine; a text-book for engineering colleges. 1911. Van Nostrand.

Earlier edition has title "Steam-engine and other steam-motors," (r 621.11 H39).

Valves

Colvin, Fred Herbert.

621.116 C72

Link motions, valve gears and valve setting; a practical treatise which explains the mysteries of valve setting. Ed.3, rev. & enl. 1914. Henley.

Brief consideration of the principles of various valve gears and of both piston and slide valves.

Furman, Franklin De Ronde.

621.116 F98

Valves and valve gears. 2v. 1915. Wiley.

v.1. Steam engines and steam turbines. Ed.2, enl.

v.2. Gasoline, gas and oil engines.

Essentially for the designer. Outlines fundamental principles of steam and internal combustion engines, gives a classification of prime mover valves based on their fundamental construction, and discusses separately the numerous practical types of valves and valve-gears.

Tennant, William John.

r 621.116 T29

Slide valve simply explained; an elementary treatise for the use of engineering students; revised and much enlarged by J. H. Kinealy. 1899. Quaker City Rubber Co.

Marine engines. Ship propulsion

Dickie, George William.

r 621.12 D55

Auxiliary machinery of naval vessels. 1893. Wiley.

Advance copy of paper read at the International Engineering Congress, Chicago, 1893.

With this is bound "Problems confronting the naval engineer and the success which has been attained in their solution," by I. N. Hollis.

Sells, Charles de Grave.

r 359 A41

Progress of warship engineering. 1911-14. Low. (In All the world's fighting ships; naval encyclopedia and yearbook, v.14-17.)

Sennett, Alfred Richard, & Oram, H. J.

621.12 S47

Marine steam engine. Ed.13. 1916. Longmans.

Extensive work, including auxiliary machinery of the engine room. New edition considers liquid fuel, the steam turbine and the internal combustion engine.

Bauer, Gustav, and others.

621.125 B32

Marine steam turbines (forming the supplementary volume to "Marine engines and boilers"); tr. from the German and ed. by M. G. S. Swallow. 1911. Lockwood.

Considers especially theory, calculation, design and auxiliary apparatus. Gives chief attention to turbines of the A. E. G. and Curtis types and less to the Parsons type.

"On the whole, the book...may be considered the most satisfactory yet published on the subject of marine steam turbines." *Engineering news*, 1912.

Reed, Stanley John.

621.125 R28

Design of marine steam-turbines, with an abstract of the discussion upon the paper; ed. by J. H. T. Tudsbery. 1909.

The same. (In Institution of Civil Engineers. Minutes of proceedings, v.177, session 1908-1909, pt.3, p.1-56.).....r 620.5 I247m v.177

Concerned only with Parsons reaction type of turbine.

Sothorn, John William Major.

621.125 S71

Marine steam turbine; a practical description of the Parsons and Curtis marine steam turbines as presently constructed, fitted and run, intended for the use of students, naval and mercantile marine engineers, surveyors, superintendent engineers, draughtsmen, works' managers, foremen engineers and others. Ed.4, rewritten & enl. 1916. Van Nostrand.

Value is largely in the illustrations and diagrams. Descriptive. Not confined entirely to Parsons type, though treatment of others is brief and incidental.

Hobart, Henry Metcalf.

621.127 H64

Electric propulsion of ships. 1911. Harper.

Considers advantages of electric driving of ships' machinery, with either the steam turbine or the gas-engine as prime mover. Includes chapter on mechanical speed-reduction gears for turbines.

Peabody, Cecil Hobart.

621.128 P33

Propellers. 1912. Wiley.

"Gives a reliable and convenient method of designing propellers, based on model experiments and free from theoretical intricacies and uncertainties. For details of experiments on which the method is based, and for theoretical investigations, reference may be had to the author's 'Naval Architecture.'" *Preface.*

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Bibliography

Bureau of Railway Economics, Washington, D.C.

qr 016.62113 B89

List of references on railway motor cars, Nov. 30, 1915. [1915.]

Type-written copy.

General works

Colburn, Zerah.

r 621.13 C67

The locomotive engine; including a description of its structure, rules for estimating its capabilities and practical observations on its construction and management. 1864. Baird.

Forney, Matthias Nace.

621.13 F77a

Catechism of the locomotive; revised and enlarged by G. L. Fowler. Ed.3, rev. & enl. v.2. 1911. Railway Age Gazette.

For v.1 see preceding catalogue, v.6.

Norris, Septimus.

r 621.13 N45

Hand-book for locomotive engineers and machinists, comprising the proportions and calculations for constructing locomotives, manner of setting valves, tables of squares, cubes, areas, &c. 1866. Baird.

Roberts, Clarence, & Smith, R. M.

621.13 R53

Practical locomotive operating. 1913. Lippincott.

Manual of operation and care of locomotives in service. For engineers and firemen.

Swingle, Calvin Frank.

621.13 S97a

Cyclopedia of locomotive engineering, with examination questions and answers; a practical manual on the construction, care and management of modern locomotives, special chapters on the air brake. [Rev. ed.] 1916. Drake.

Wood, Arthur Julius.

621.13 W85

Principles of locomotive operation and train control. 1915. McGraw.

Text-book, dealing clearly with the principles of modern locomotive engineering. Has chapter on electrification.

American Railway Master Mechanics' Association.

qr 621.1303 A51

Locomotive dictionary; definitions and illustrations of American locomotives, their parts and equipment, together with typical illustrations of machine tools and devices used in their maintenance and repair; comp. and ed. by R. V. Wright [and others], 1912, 1916. Ed.3-4. 1912-16. Simmons.

Verein Deutscher Maschinen-Ingenieure.

qr 621.131 V27

Theoretisches lehrbuch des lokomotivbaues; die lokomotivkraft, die bewegung, führung, ausprobierung und das entwerfen der lokomotiven;

Verein Deutscher Maschinen-Ingenieure—*continued.* qr 621.131 V27
im auftrage des Vereins Deutscher Maschinen-Ingenieure bearbeitet
von F. Leitzmann und v. Borries. 1911.

"Literaturverzeichnis," p.692.

Exhaustive technical treatise, dealing with design, construction, testing and performance of the steam locomotive.

Pechar, Johann, *comp.* r 621.1371 P35

Die lokomotiv-feuerbüchse für rauchverzehrung und brennstoff-
ersparniss mit besonderer berücksichtigung des systems Nepilly, nebst
einem anhang "Erfahrungen mit der Nepilly'schen lokomotivfeuerung."
1884.

United States—Interstate and foreign commerce committee. r 621.139 U25

Safety on railroads: hearings on bills relative to safety on railroads;
headlights on engines, Jan. 16 and 24, 1914. 1914.

Traction engines

Pagé, Victor Wilfred. 621.143 P14

Modern gas tractor; its construction, utility, operation and repair;
a practical treatise defining every branch of up-to-date gas tractor en-
gineering, driving and maintenance in a non-technical manner. 1914.
Henley.

Presents some information on design, but is mainly a guide to operation for the
farmer or mechanic.

Stationary engines

Stumpf, Johann. q 621.16034 S93

The una-flow steam-engine. 1912. Constable.

Explains thermal and constructional features of author's unidirectional flow steam-
engine and discusses application of the principle to various types of engine.

Steam-turbines

Martin, Harold Medway. q 621.165 M42

Design and construction of steam turbines; a manual for the engi-
neer. 1913. "Engineering."

Based largely on articles in "Engineering." About equally divided between theory
of the steam turbine and descriptive matter.

"Well-reasoned and at the same time practical study of the steam turbine, addressed
to the engineer equipped with a moderate mathematical training." *Electrical engineering*
(London), 1913.

Morrow, John. 621.165 M92

Steam turbine design, with especial reference to the reaction type,
including chapters on condensers and propeller design. 1911. Long-
mans.

For practical designers and advanced students. Quite thorough in the field it
covers. Best treatise on the Parsons type of turbine that has yet appeared (1912).

Peabody, Cecil Hobart. 621.165 P33

Thermodynamics of the steam turbine. 1911. Wiley.

Binder's title reads "The steam turbine."

"Attempt at a systematic treatment of the thermodynamics of the steam turbine...
Constructive details are considered so far as they are necessary for a proper under-
standing of the thermodynamic computations or as they are related to such computa-
tions." *Preface.*

Parallel book to author's "Thermodynamics of the steam engine" (621.01 P33a).
Assumes previous grounding in general thermodynamics.

- Wilda, Hermann.** 621.165 W71
 Die dampfturbinen; ihre wirkungsweise und konstruktion. 1906.
 "Literatur," p.3.
 Brief discussion of principles, various commercial types and applications.

- Zerkowitz, Guido.** r 621.165 Z54
 Thermodynamik der turbomaschinen; thermodynamische bewertung und berechnung der dampfturbinen, turbo-kompressoren, turbo-kältemaschinen und gasturbinen unter besonderer berücksichtigung graphischer verfahren. 1913.

Summarizes the scanty literature in a hitherto neglected field.
 "Not suitable for a text-book except for very advanced classes, but is well adapted to serve the needs of designing engineers, specialists in the limited field which the author has treated." *W. H. Herschel, in Engineering news, 1913.*

Steam economy

- Thurston, Robert Henry.** r 621.17 T43
 Handbook of engine and boiler trials, and of the indicator and Prony brake. Ed.4, rev. 1897. Wiley.

Boiler explosions

- Boehm, William H.** r 621.178 B58
 Steam-boiler explosions; an illustrated lecture delivered at Cornell University before the student branch of the American Society of Mechanical Engineers. Fidelity and Casualty Co.

With this is bound his "Fly-wheel explosions."
 Touches on causes of boiler explosions, factors of safety, and inspection and insurance.

- United States—Interstate commerce commission..** r 621.178 U25
 Annual report (1st–5th) of the chief inspector of locomotive boilers to the Interstate commerce commission, 1911/12–1915/16. 1912–16.

- United States—Interstate commerce commission.** r 621.178 U25r
 Rules and instructions for inspection and testing of locomotive boilers and their appurtenances; law. 1915.

Engine management

- D'Este (Julian) Company.** 621.179 D47
 D'Este steam engineers' manual. Ed.2. 1913.

"Bibliography," p.114–117.
 With this is bound "Electrical appendix [to] the D'Este steam engineers' manual," by Charles Penrose.
 Power-plant manual for the practical operating engineer.

- Franke, Jan Nepomucen.** 621.179 F87
 Poradnik dla obsługi i nadzoru kotłów i maszyn parowych, tudzież motorów gazowych, benzynowych i naftowych, dla użytku maszynistów, kotłowych, gorzelników, właścicieli maszyn i techników. Ed.4. 1907.

- Hawkins, Nehemiah.** 621.179 H36
 Aids to engineers' examinations, prepared for applicants of all grades, with questions and answers; a summary of the principles and practice of steam engineering. 1914. Audel.

Hill, John Willmuth.

r 621.179 H55

Manual for engineers and steam users, with tables of performance of the Harris-Corliss engine, duty of pumping engines, economy of boilers and furnaces, steam boiler explosions, strength of materials, mensuration, etc. 1878. Harris.

Luhr, Otto.

621.179 L97

Mechanical and refrigerating engineers' handy book, with collaboration of E. T. Henius. 1913. Wahl-Henius Institute.

The same..... r 621.179 L97

Comprehensive and valuable compilation, thoroughly up to date (1913). Covers general field, including steam, gas, refrigeration and electrical engineering.

Mason Regulator Company, Boston, *pub.*

r 621.179 M44

Key to steam engineering; questions and answers concerning the steam engine and boiler, the combustion of coal, expansion and condensation of water, vaporization, evaporation, etc. Ed.5. 1912.

Elementary.

Penrose, Charles.

621.179 D47

Electrical appendix [to] the D'Este steam engineers' manual. 1913. D'Este.

Bound with Julian D'Este Company's "D'Este steam engineers' manual."

Swingle, Calvin Frank.

621.179 S97t2

Twentieth century hand-book for steam engineers and electricians, with questions and answers; a practical nontechnical treatise on the care and management of steam engines, boilers and electric machinery, with full instructions in regard to the intelligent management of all classes of steam engines, etc. [Rev. & enl. ed.] 1916. Drake.

Ware, Bruce Richardson, *comp.*

r 621.179 W22

Handy book for the aid and instruction of the enlisted men in the Engineer department, United States navy; prepared [in] 1908, revised [in] 1914. 1915. U. S. Government. (United States—Navigation bureau. Navy department.)

Outlines duties of men, and gives very brief elementary instruction in operation of marine engines and auxiliary equipment.

Steam generation. Boilers. Furnaces

Babcock & Wilcox Co.

qr 621.18 B11s2

Steam; its generation and use. [Ed.35.] 1913.

Devoted in part to exploitation of Babcock & Wilcox equipment, but is, in general, a valuable treatise on history of steam generation, properties of water, properties of steam, fuels and combustion, and boiler room economy.

Barth, Friedrich.

621.18 B27

Die dampfkessel; kurzgefasstes lehrbuch mit beispielen für das selbststudium und den praktischen gebrauch. 1905.

"Literatur," p.2.

Heine Safety Boiler Co.

r 621.18 H41a

Helios; a compilation of boiler room engineering information. [Ed. 11.] 1916. [Heine Safety Boiler Co.]

Catalogue containing articles and tables relating to fuel, steam generation, boiler testing, etc.

Italy—Ministero di agricoltura, industria e commercio. qr 621.18 I31

Caldaie e recipienti a vapore sottoposti alla sorveglianza del ministero di agricoltura, industria e commercio; notizie statistiche al primo Gennaio 1911. 1911.

Kent, William, b. 1851. 621.18 K19a

Steam-boiler economy; a treatise on the theory and practice of fuel economy in the operation of steam-boilers. Ed.2, rev. & enl. 1915. Wiley.

This edition contains new chapters on boiler design and construction and boiler-room appliances.

Intended for users of boilers rather than for the manufacturer. Includes a chapter on smoke prevention.

Peabody, Cecil Hobart, & Miller, E. F. 621.18 P33

Steam-boilers. Ed.3, rev. & enl. 1913. Wiley.

"Though the book is intended primarily for the use of students in technical schools and colleges, it is hoped that it may be found useful to engineers in general." *Preface.*

Schlippe, K. E. Th. 621.18 S34

Die dampfkessel und ihr betrieb; allgemeinverständlich dargestellt.

Ed.4, rev. & enl. 1913.

Good introductory book on the steam boiler, covering principles, construction and operation. Reviews legislative requirements in Berlin.

Shealy, Edward Marvin. 621.18 S53

Steam boilers; prepared in the Extension division of the University of Wisconsin. 1912. McGraw. (Engineering education series.)

Based on correspondence courses of Extension division of University of Wisconsin. Deals mainly with boiler operation testing, and accessories. Little attention to design.

Wilson, Robert, 1803-82. r 621.18 W77a

Treatise on steam boilers; their strength, construction and economical working; enl. from the fifth English edition by J. J. Flather. Ed.3. 1893. Wiley.

A standard work on the subject, which still contains much of value, in spite of the changes in practice since its publication.

Babcock & Wilcox Co. qr 621.1815 B11

The Rust water-tube boiler. 1911.

Babcock & Wilcox Co. qr 621.1815 B11s

The Stirling water-tube boiler. 1914.

Edge Moor Iron Company, Edge Moor, Del. r 621.1815 E28

Edge Moor water tube boiler; general catalogue. 1915.

Besides the commercial information regarding the boiler, there is a technical consideration of fuels, combustion, and steam generation.

Babcock & Wilcox Co. r 621.1818 B11

Steam superheaters. 1914.

Babcock & Wilcox Co. qr 621.183 B11

Forged steel water-tube marine boilers, manufactured by the Babcock & Wilcox Co. Ed.2. 1914.

Valuable publication, considering history of marine boilers, fuels, boiler operation, maintenance and tests.

American Society of Mechanical Engineers. 621.185 A51

Report of the committee to formulate standard specifications for the construction of steam boilers and other pressure vessels and for their care in service, known as the Boiler code committee; rules for the construction of stationary boilers and for allowable working pressures. 1915.

The same r 621.185 A51

Belluomini, Giuseppe. 621.185 B41

Manuale pratico del caldaio; costruttore di caldaie a vapore e di altri apparecchi industriali. Ed.2, rev. & enl. 1909.

Does not include boiler operation.

Boiler maker. q 621.185 B59

Laying out for boiler makers and sheet metal workers; a practical treatise on the layout of boilers, stacks, tanks, pipes, elbows and miscellaneous sheet metal work. Ed.2. 1913.

Reprinted from the "Boiler maker."

"Compiled for the purpose of giving the practical boilermaker the information necessary to enable him to lay out [work]...Only those lay-outs which are of immediate material use to boilermakers are described and as far as possible the minor details are given." *Preface.*

Haven, George Bartholomew, & Swett, G. W. 621.185 H35

Design of steam boilers and pressure vessels. 1915. Wiley.

Text-book giving instruction in rational design and presenting mainly principles which are of general application. Also deals briefly with specific design of selected types. Has chapter on tanks.

International Correspondence Schools, Scranton, Pa. 621.185 I248

Heat and steam, boiler fittings, strength of boiler surfaces, riveted joints, boiler capacity, boiler inspection and management, boiler repairs, boilermaking. 1902-12. International Textbook Co. (International library of technology, v.128.)

The same r 621.185 I24

Mason, Charles James. 621.185 M44

Arithmetic of the steam boiler; a reference book showing the various applications of arithmetic to steam boilers. 1914. McGraw. (Power handbooks.)

Deals mainly with design and construction. Gives rules and formulas, with particular reference to calculations of strength and efficiencies of joints.

Traill, Thomas William. 621.185 T68a

Boilers, marine and land; their construction and strength. Ed.4. 1913. Griffin.

Information on design and construction of boilers and on determining safe working pressures.

Engineering Standards Committee. qr 621.1851 E64

British standard screwing for marine boiler stays. 1913. (British standard sections no.62.)

Bound with its "British standard specification for charcoal iron lapwelded boiler tubes."

Armstrong Cork Company, Pittsburgh.

621.1864 A73

Nonpareil high pressure coverings, for high pressure and super-heated steam lines, boilers, breechings and all heated surfaces. 1911. Pittsburgh.

Trade literature. Descriptive of properties and efficiency tests.

Wagner, Robert.

qr 621.1866 W13

Kondenswasser-ableiter, deutsche, englische, amerikanische; ein vergleich der verschiedenen systeme unter angabe ihrer konstruktion, wirkungsweise u. behandlung, praktische ratschläge für dampfkesselbesitzer zur verhütung, abscheidung, reinigung u. wiederverwendung von kondenswässern. 1911.

Practical work on various forms of steam traps and similar devices. Describes and illustrates many trade types, with considerable attention to American practice.

621.187 B59

Boiler furnaces. 1911. Industrial Press. (Machinery's reference series, no.68.)

Contents: Combustion and fuels.—Furnaces.—Mechanical stokers.—Mechanical draft.—Oil fuel.—Chimneys.

Pamphlet, largely compiled from "Machinery."

Booth, William Henry, & Kershaw, J. B. C.

621.187 B63

Smoke prevention and fuel economy; based on the German work of E. Schmatolla. Ed.2, rev. & enl. 1912. Henley.

Contents: The chemistry of the combustion process.—Present methods of burning fuels and their defects.—Improved methods of burning fuel.—The examination of the waste gases, and control of the combustion process.—The legal position and the work of voluntary agencies.—Patent abstracts.—Fuel analyses, losses and costs.—Miscellaneous extracts.

Brief handbook of the elements of smoke prevention and combustion.

Haier, F.

qr 621.187 H14

Dampfkessel-feuerungen zur erzielung einer möglichst rauchfreien verbrennung, im auftrage des Vereins Deutscher Ingenieure bearbeitet vom Verein für Feuerungsbetrieb und Rauchbekämpfung in Hamburg. 1910.

Exhaustive study of smoke prevention in so far as it may be effected by proper operation of boilers and furnaces.

Verein für Feuerungsbetrieb und Rauchbekämpfung,
Hamburg.

qr 621.187 V27

Bericht, 1910.

Results of numerous steaming tests and investigations of boiler plants with hand-firing and with mechanical stoking.

Williams, Charles Wye.

r 621.187 W74

Elementary treatise on the combustion of coal and the prevention of smoke, chemically and practically considered. 1858. Weale.

Discusses combustion, air supply and furnace design, claiming that smoke may be prevented by perfect combustion, but not consumed after having been formed.

Babcock & Wilcox Co.

qr 621.18714 B11

Chain grate stokers. 1914.

Advantages, tests and installations. Has section on furnace brickwork.

Christie, William Wallace.

621.189 C46

Furnace draft; its production by mechanical methods. Ed.2, rev. 1906. Van Nostrand.

Small book of 80 pages, containing tables, results of tests, general data.

Water-motors

For Hydraulic engineering, see 627

Bresse, Jacques Antoine Charles.

r 621.2 B73

Hydraulic motors; tr. from the French *Cours de mécanique appliquée*, by F. A. Mahan; revised by D. H. Mahan. 1869. Wiley.

Ewbank, Thomas.

r 621.2 E96a

Descriptive and historical account of hydraulic and other machines for raising water, ancient and modern; with observations on various subjects connected with the mechanic arts, including the progressive development of the steam engine. Ed.13, rev. 1854. Bangs.

Glynn, Joseph.

r 621.2 G52

Rudimentary treatise on the power of water as applied to drive flour mills and to give motion to turbines and other hydrostatic engines. Ed.2 [rev. & enl.]. 1866. Virtue.

Ludin, Adolf.

qr 621.2 L97

Die wasserkräfte; ihr ausbau und ihre wirtschaftliche ausnutzung; ein technisch-wirtschaftliches lehr- und handbuch. 2v. 1913.

"Abgekürzte literaturverweise," v.2, p.1402-1404.

Extensive work on practical development and economic utilization of water-power. Revision of author's original study, which was awarded the prize offered in 1908 by the Königlische Akademie des Bauwesens in Berlin for the best work on the subject.

Mead, Daniel Webster.

r 621.2 M55a

Water power engineering; the theory, investigation and development of water powers. Ed.2. 1915. McGraw.

Unusually thorough. Contains excellent bibliographies.

United States—Corporations bureau.

r 621.2 U25

Report of the commissioner of corporations on water-power development in the United States. 1912.

Contents: Physical conditions and economic aspects of water power.—Concentration of ownership and control.—Water power and the public.

qr 621.205 W29

Water chronicle; devoted to all water utilization; monthly, 1913-Oct. 1914. v.1-v.4, no.4. 1913-14.

v.1-2, 1913, title reads "Water-power chronicle."

No more published.

Daugherty, Robert Long.

621.24 D28

Hydraulic turbines, with a chapter on centrifugal pumps. 1913. McGraw.

Brief consideration of water-power development and the construction, selection and cost of turbines.

Lorenz, Hans.

621.24 L87

Neue theorie und berechnung der kreiselräder; wasser- und dampf-turbinen, schleuderpumpen und -gebläse, turbokompressoren, schrauben-gebläse und schiffspropeller. Ed.2, rev. & enl. 1911.

"Verzeichnis der schriften über die neue theorie der kreiselräder," p.238-240.

"One of the most remarkable contributions to the subject of hydraulics which has appeared in many years...The idea which gave rise to the book was the thought of applying the modern mathematical theory of hydromechanics to practical hydraulic problems." *Lewis F. Moody, in Engineering news, 1912.*

Electrical engineering

See also Electricity, 537

r 621.3 A61

L'Année électrique, électrothérapique et radiographique; revue annuelle des progrès électriques en 1900, par Foveau de Courmelles. [v.1.] 1901.

Intended to supply the field formerly covered by "L'Année électrique, par Ph. Delahaye" (r 621.3 A613).

r 621.3 A613

L'Année électrique; ou, Exposé annuel des travaux scientifiques, des inventions et des principales applications de l'électricité à l'industrie et aux arts, par P. Delahaye, 1887, 1889. v.4, 6. 1888-90.

"Bibliographie," v.4, p.369-372.

Eight annual volumes were published in all.

Barni, Edoardo.

621.3 B25

Il montatore elettricista; manuale per gli operai elettricisti di impianti industriali. Ed.12, rev. & enl. 1913. (Biblioteca di elettricità.)

Non-technical. Explains principles of electricity and describes chief applications. Considerable attention to installation, operation and maintenance of electrical machinery.

Beck, Wilhelm August.

r 621.3 B36

Die elektrizität und ihre technik, nebst einem anhang Das wesen der elektrizität und des magnetismus, von J. G. Vogt. Ed.2. 1897.

Rather popular work on nature, production, measurement and applications of electricity.

Berg, Ernst Julius.

621.3 B45

Electrical energy; its generation, transmission and utilization; lectures given at Union University. 1908. McGraw.

"An authoritative book. Very nearly all the theory of polyphase alternating current is introduced and elucidated with reference to one concrete problem, namely, to transmit certain power, a certain distance for certain purposes...The treatment is vivid for the theory is applied in every case to the problem at hand." *Physical review*, 1908.

Berg, Ernst Julius.

621.3 B45el

Electrical engineering; advanced course. 1916. McGraw.

Somewhat simpler than Steinmetz's "Transient phenomena," but still rather advanced for the average student who has had only the ordinary undergraduate course in electrical engineering.

Berg, Ernst Julius, & Upson, W. L.

621.3 B45e

Electrical engineering; first course. 1916. McGraw.

Text-book by the professor and the associate professor of electrical engineering at Union College.

Cadiat, Ernest, & Dubost, Lucien.

qr 621.3 C11

Traité pratique d'électricité industrielle; unités et mesures, piles et machines électriques, éclairage électrique, transmission électrique de la force, galvanoplastie et électro-métallurgie, téléphonie. Ed.2. 1886.

Rather detailed discussion of theory, generation, transmission and measurement of electricity, and of various applications, including lighting, electroplating, electrometallurgy and telephony.

Caldwell, Francis Cary.

621.3 C13

Electrical engineering problems. 1914. McGraw.

Contents: Direct current circuits and apparatus.—Alternating current circuits and apparatus.

Collection of problems covering a wide range. Probable length of time for solution of each is indicated.

Christie, Clarence Victor.

621.3 C46

Electrical engineering; the theory and characteristics of electrical circuits and machinery. 1913. McGraw.

"The theory and characteristics of electrical machines are developed from the fundamental principles of electrostatics and electromagnetics. Only the more standard types have been discussed." *Preface.*

Croft, Terrell, comp.

r 621.3 C88

American electricians' handbook; a reference book for practical electrical workers. 1913. McGraw.

Contents: Fundamentals.—Generators and motors.—Outside distribution.—Interior wiring.—Transformers.—Illumination.

Practical manual, primarily for the man without theoretical training. Gives information on selection, installation and operation of electrical apparatus.

Du Moncel, Théodore Achille Louis, comte.

qr 621.3 D89

Exposé des applications de l'électricité. Ed.3. 5v. 1872-85.

v.1-2. Technologie électrique.

v.3. Télégraphie électrique.

v.4. Applications mécaniques de l'électricité.

v.5. Applications industrielles de l'électricité.

Exhaustive work dealing very fully with apparatus, and applications as developed up to date of publication.

Electrical world.

621.3 E4432

Handbook of electrical methods; comp. from the Electrical world. 1913. McGraw.

Short fragmentary articles on all branches of electrical engineering.

Erhard, Christian Hugo Theodor.

r 621.3 E73

Einführung in die elektrotechnik; die erzeugung starker elektrischer ströme und ihre anwendung zur kraftübertragung. 1897.

Covers briefly the main principles of electrical engineering. Offers to engineers a résumé of the theory underlying design and construction.

Fein, W. E.

r 621.3 F32

Elektrische apparate, maschinen und einrichtungen; eine sammlung von beschreibungen zum gebrauch für techniker, ingenieure, industrielle, telegraphen-beamte, aerzte, für lehrzwecke und zum selbst-unterricht. 1888.

Mainly descriptive and now (1914) of historical interest only.

Frankfort-on-the-Main, International Electrical

qr 621.3 F877

Exposition, 1891.

Offizieller bericht; hrsg. vom vorstand der ausstellung. 2v. 1893-94.

General Electric Company, Schenectady, N. Y.

r 621.3 G292

Annual report (21st-25th), 1912-16.

For reports for 1904/05-1911 see preceding catalogue, v.6.

Gérard, Éric.

qr 621.3 G31

Leçons sur l'électricité, professées à l'Institut Électro-technique Montefiore annexé à l'Université de Liège. Ed.2, rev. & enl. 2v. 1891.

Grawinkel, Carl, & Strecker, K. G. B. C. ed.

r 621.3 G81a

Hilfsbuch für die elektrotechnik. Ed.5, enl. 1898.

The same. Ed.2, enl. 1891.....r 621.3 G81

A standard German reference book.

- Gray, Alexander.** 621.3 G81
Principles and practice of electrical engineering. 1914. McGraw.
Based on lecture and laboratory course for senior civil, mechanical and mining students. Brief course, with considerable attention to applications.
qr 621.3 H23
- Handbuch der elektrotechnik;** hrsg. von C. Heinke. Ed.1-2. v.1, pt.2-3, v.2-5, v.6, pt.1-3, v.7, 9, v.11, pt.2, v.12. 1901-10.
v.1, pt.2-3. Die elektrophysik und die theorie des elektromagnetismus, von C. Heinke und H. Ebert.
v.2, pt.1-6. Die messtechnik, von C. Heinke und anderen.
v.3. Stromquellen und akkumulatoren, von J. Kollert und E. Sieg.
v.4. Ein- und mehrphasen-wechselstrom-erzeuger, von F. Niethammer.
v.5. Dynamobau; berechnen und entwerfen der elektrischen maschinen und transformatoren, von Karl Pichelmayer.
v.6, pt.1-3. Die leitungen, schalt- und sicherheitsapparate für elektrische starkstromanlagen, von H. Pohl und B. Soschinski.
v.7. Elektrische centralen, von K. Wilkens.
v.9. Elektromotoren, umformer und elektrische motorantriebe, von F. Niethammer.
v.11, pt.2. Wärmetechnik und signalwesen, von V. Engelhardt und anderen.
v.12. Telegraphie und telephonie, von J. Noebels und anderen.
- Hawkins, Nehemiah.** r 621.3 H36
New catechism of electricity; a practical treatise. 1902. Audel.
- Hibbert, Walter.** 621.3 H52
Popular electricity. 1910. Cassell.
"Gives a bird's-eye view of the many applications of electric energy."
Descriptions are clear and non-technical, with reference to the most recent apparatus.
- Hoppe, Oskar.** r 621.3 H78
Elementarer praktischer leitfaden der elektrotechnik. 1898.
Considers principles and the more important applications of electricity.
- International Congress of the Applications of Electricity (1st), Turin, 1911.** qr 621.3 I24
Atti. 3v. 1912.
v.1. Ordinamento e svolgimento del congresso.
v.2-3. Rapporti, comunicazioni e discussioni.
- International Correspondence Schools, Scranton, Pa.** 621.3 I24
Design of alternating-current apparatus, electric transmission, line construction, switchboards and switchboard appliances, power transformation and measurement. 1905-08. International Textbook Co. (International library of technology, v.13C.)
Being a later edition of "Electrical engineering," v.3A (621.3 E443).
- International Electrical Congress, Paris, 1889.** r 621.3 I2482
Comptes rendus des travaux; publiés par les soins de J. Joubert. 1890.
- Janet, Paul André Marie.** r 621.3 J17p
Premiers principes d'électricité industrielle; piles, accumulateurs, dynamos, transformateurs. 1893.
Attempts a clear presentation of fundamental ideas. For students.
r 621.3 K11
- Kalender für elektrotechniker,** 1887-88, 1890; hrsg. von F. Uppenborn. 4.-5. 7. jahrgang. 1887-90.

- Kennelly, Arthur Edwin.** 621.3 K18a
Application of hyperbolic functions to electrical engineering problems. [Ed.2.] 1916. McGraw.
"Bibliography," p.287-297.
The same. 1912. University of London Press.....621.3 K18
"Bibliography," p.266-273.
Being the subject of a course of lectures given for the University of London in 1911.
"One of the most useful contributions to the more theoretical side of electrical engineering literature which has appeared in recent years." *Electrical review (London)*, 1912.
- Koester, Frank.** 621.3 K36
Electricity for the farm and home. 1913. Sturgis. (Farmer's practical library.)
Non-technical work discussing practical applications on a small scale.
- Lefèvre, Julien.** r 621.3 L53
Les nouveautés électriques. 1896.
Outlines progress of electrical development during eight or ten years preceding date of publication. Deals mainly with scientific and industrial applications.
- May, Gustav, comp,** r 016.6213 M52
Bibliography of electricity and magnetism, 1860-1883, with special reference to electro-technics; index by O. Salle. 1884. Trübner.
- Meardi, Paolo.** r 621.3 M55
L'elettricità e le sue applicazioni all' Esposizione di Torino del 1884. 1885.
- Pender, Harold.** 621.3 P38
Principles of electrical engineering. 1911. McGraw.
Author is (1911) professor of theoretical and applied electricity, Massachusetts Institute of Technology.
"An exposition of the physical principles upon which the art of electrical engineering is based, together with a discussion of the application of these principles in some of the simpler forms of electric apparatus and machinery... There will doubtless be those who, after an examination of the text, will pronounce it more of a treatise on physics than on electrical engineering." *Preface.*
- Pittsburgh—Public safety department.** r 621.3 P67
Code of laws, ordinances and regulations relating to the bureau of electricity, and the erection, construction and inspection of wires, etc. in effect June 1, 1912. [Pittsburgh.]
Cover has title "Manual...1912."
- Rowland, Arthur John.** 621.3 R79
Applied electricity for practical men. 1916. McGraw.
Text-book for trade school students and practical electricians. Theory is avoided. Problems at end of each chapter.
- Ryan, William Thomas.** 621.3 R95
Design of electrical machinery; a manual for the use, primarily, of students in electrical engineering courses. 3v. 1912. Wiley.
v.1. Direct current dynamos.
v.2. Alternating current transformers.
v.3. Alternators, synchronous motors, rotary converters.
Attempts to present briefly and clearly the fundamental principles.

Saint-Edme, Ernest.

r 621.3 S13

Catéchisme d'électricité pratique; premières leçons à la portée de tous.

Catechism of applied electricity. Touches on electrostatics, dynamo-electric machinery, batteries, lamps and telephones. In many cases the answers are obscure and not well adapted to the use of beginners.

Sewell, Tyson.

621.3 S51a

Elements of electrical engineering. Ed.4, rev. & enl. 1907. Van Nostrand.

Largely descriptive and demands but little mathematical knowledge. Adapted for general readers and beginners.

Steinmetz, Charles Proteus.

621.3 S82e

Elementary lectures on electric discharges, waves and impulses, and other transients. 1911. McGraw.

"The book contains a series of lectures...given to the graduate classes of Union University as an elementary introduction to and 'translation from mathematics into English' of the 'Theory and calculation of transient electric phenomena and oscillations.'" *Preface.*

Steinmetz, Charles Proteus.

621.3 S82a2

Theoretical elements of electrical engineering. Ed.4, rev. 1915. McGraw.

Contents: General survey.—Special apparatus: Synchronous machines; Direct-current commutating machines; Synchronous converters; Alternating-current transformer; Induction machines.

The theoretical part may be used as an introduction to the author's treatise on "Alternating current phenomena" the part on special apparatus being in certain respects a supplement to the same book. Not suited for beginners in the study of alternating currents. Calculations are usually made with the aid of the complex variable.

Timbie, William Henry.

621.3 T47

Essentials of electricity; a textbook for wiremen and the electrical trades; direct currents. 1913. Wiley. (Wiley technical series.)

Clear and concise explanation of the ordinary applications. Includes many problems.

Walmsley, Robert Mullineux.

621.3 W18e2

Electricity in the service of man; a popular and practical treatise on the applications of electricity in modern life. v.2, pt.1. 1913. Cassell.

v.2, pt.1. Technology of electricity.

Accurate popular manual, interesting and readable in style and very fully illustrated. Covers the subject thoroughly.

For v.1 see preceding catalogue, v.6.

Woodhull, John Francis.

621.3 W86

Electricity and its everyday uses. 1911. Doubleday. (Children's library of work and play.)

Partial contents: The dynamo and the power station.—The electric motor.—Electric heating.—Lighting a summer camp by electricity.—How electricity feels.—The telephone.—Electric bell outfit for the cottage.—Using electricity to aid the memory.—The electric brick oven.—Telegraphing by electric waves.

Directories

qr 621.302 D48

Die deutschen elektrischen strassenbahnen, klein- und pferdebahnen, sowie die elektrotechnischen fabriken, elektricitätswerke samt hilfs-geschäften im besitze von aktien-gesellschaften. 1897.

Directory, giving considerable information about each project. Indexes to names of companies and to places.

- Frankfort-on-the-Main, International Electrical
Exposition, 1891. r 621.302 F87
Officieller katalog. Ed.2. 1891.

Periodicals

- Archiv für elektrotechnik, 1912–date. v.1–date. 1912–date. qr 621.305 A67
v.1 edited by W. Rogowski.
Supplement to "Elektrotechnische zeitschrift," containing papers of a purely theoretical nature.
- Association of Iron and Steel Electrical Engineers. qr 621.305 A84
Proceedings of annual convention, 1907–16.
Title varies.
Oct. 1907–Oct. 1909 meetings were held semi-annually.
- Bulletin de la Société Internationale des Électriciens [monthly]; table générale des matières, v.18–27, 1901–10. qr 621.305 B87
For volumes of magazine see preceding catalogue, v.1.
- Electrical engineering [New York], 1903–date. v.30–date. 1903–date. qr 621.305 S72
v.31, July–Dec. 1903, title reads "Electrical and engineering age;" v.42–v.45, no.4, 1911–March 1913, "Southern electrician;" v.45, no.5–v.47, no.9, April 1913–Sept. 1915, "Electrical engineering;" v.47, no.10–v.50, no.8, Oct. 1915–Aug. 1917, "Electrical age."
- Electrical record, 1911–date. v.9–date. 1911–date. qr 621.305 E4445
qr 621.305 E4431
- Electrical review and western electrician [weekly], Nov. 1908–date. v.53 no.19–date. 1908–date.
For earlier volumes see preceding catalogue, v.1, under title "Electrical review."
- qr 621.305 Z432
- Elektrotechnik und maschinenbau; zeitschrift des Elektrotechnischen Vereines in Wien und organ des Zweigvereines Brünn, 1906–date. 24. jahrgang–date. 1906–date.
—Anhang; industrielle und wirtschaftliche nachrichten [weekly], 1911–date. 1911–date.....qr 621.305 Z432a
For earlier volumes see preceding catalogue, v.4, under title "Zeitschrift für elektrotechnik."

Societies

- American Institute of Electrical Engineers. r 621.306 A51
Year book, 1912–14, 1916. [1912–16.]
- American Institute of Electrical Engineers— r 621.306 A512
Pittsburgh section.
American Institute of Electrical Engineers; a few facts regarding its objects, scope and work, Pittsburgh section, 1913–14. [1914.]
- Electric Power Club. r 621.306 E44
Executive staff, member companies, committees, constitution and by-laws, standards, nomenclature, index. 1914.

Pocket-books

Clewell, Clarence Edward. 621.308 C58

Handbook of machine shop electricity. 1916. McGraw.

"Bibliography" at the end of each section.

Admirable practical manual.

Foster, Horatio Alvah, comp. r 621.308 F81a

Electrical engineer's pocket-book; a hand-book of useful data for electricians and electrical engineers. Ed.7, rev. 1913. Van Nostrand.

International Correspondence Schools, Scranton, Pa. 621.308 I24

Electrical engineer's handbook; a convenient reference book for all persons interested in electricity and magnetism, dynamos and motors, electric lighting, interior wiring, power transmission and operation and maintenance of electrical apparatus. 1911.

Binder's title reads "I. C. S. handbook for electrical engineers."

Compilation covering topics briefly. Partly intended to call attention to correspondence courses of this school.

International Correspondence Schools, Scranton, Pa. 621.308 I24t

Telephone and telegraph engineers' pocketbook; a handy reference book for all persons interested in telephone and telegraph systems, location of faults, electricity, magnetism, electrical measurements and batteries. 1908.

Compilation devoted largely to elementary electricity and magnetism. Contains some practical information on telephone and telegraph work, but is designed chiefly to promote extension of the correspondence courses of this school.

McGraw Publishing Company. r 621.308 M16a

Standard handbook for electrical engineers; prepared by a staff of specialists, F. F. Fowle, editor-in-chief. Ed.4, rewritten & enl. 1915.

Tables, formulas and important data on all branches of electrical engineering.

Pender, Harold, ed. r 621.308 P38

American handbook for electrical engineers; a reference book for practicing engineers and students of engineering; comp. by a staff of specialists. 1914. Wiley.

References at end of each article.

Largest electrical handbook yet published in English (1914). Arrangement is alphabetical, each subject being treated by a specialist.

Rziha, E. von, & Seidener, Josef, ed. r 621.308 R99a

Starkstromtechnik; taschenbuch für elektrotechniker. Ed.2. 1912.

Zech, Paul. r 621.308 Z37

Elektrisches formelbuch, mit einem anhang enthaltend die elektrische terminologie in deutscher, französischer und englischer sprache. 1883. (Hartleben's elektro-technische bibliothek.)

"Benutzte literatur," p.10.

Brief, concise encyclopedia of pure and applied electricity.

History

Collins, James Hiram. 621.309 C71

Young man and the electrical industry; what electricity might do for him, what he might do for electricity, a little article about his work in life. [1914.]

Reprinted from "Scientific American," v.124, May 16, 1914.

Outlines scope of modern electrical industry, with special reference to activities of the Westinghouse Electric and Manufacturing Company.

New York Edison Company.

r 621.309 N26

Thirty years of New York, 1882-1912; being a history of electrical development in Manhattan and the Bronx. 1913.

Bibliography, p.7.

Outlines development and present status of Edison service, and gives incidentally a good deal of general historical information.

Dynamos. Motors**Auerbach, Felix.**

r 621.31 A91

Die wirkungsgesetze der dynamo-elektrischen maschinen. 1887. (Hartleben's elektro-technische bibliothek.)

"Uebersicht der literatur," p.12-16.

Lacks logical arrangement and is not devoted entirely to dynamo-electric machinery. Mainly a presentation of the views of other scientists and engineers.

Corsepius, Max.

r 621.31 C82

Leitfaden zur konstruktion von dynamomaschinen und zur berechnung von elektrischen leitungen. Ed.3, enl. 1903.

The same. Ed.2, enl. 1894.....r 621.31 C82a

Considers both direct-current and alternating-current machinery. Deals only very briefly with conductors.

Crocker, Francis Bacon, & Arendt, Morton.

621.31 C88e

Electric motors; their action, control and application. Ed.2, enl. 1914. Van Nostrand.

References at the end of many of the chapters.

Gives advantages of electric drive. Treats almost entirely of operation, dealing with many problems of motor control. Considers both d. c. and a. c. motors.

De Marchis, Gabriele.

r 621.31 D41

Macchine d'induzione (dinamo e magneto-elettriche). 1887.

Frölich, Oskar.

qr 621.31 F96

La machine dynamo-électrique; exposé théorique, calculs, applications pratiques; tr. de l'allemand par E. Boistel. 1887.

Mathematical treatise on theory and design of electrical machinery and some applications.

Geist, Ernst Heinrich.

r 621.31 G28

Berechnung elektrischer maschinen; ein handbuch für fachleute. Ed.2, rev. 1893.

Brief presentation of calculations for shunt-wound and compound-wound dynamos, alternators and motors of various ratings, and for transformers of various capacities.

Glaser de Cew, Gustav.

r 621.31 G46

Die construction der magnet-elektrischen und dynamo-elektrischen maschinen [hrsg.] von F. Auerbach. Ed.5, enl. 1887. (Hartleben's elektro-technische bibliothek.)

Glaser de Cew, Gustav.

r 621.31 G46d

Die dynamoelektrischen maschinen; ihre geschichte, grundlagen, construction und anwendungen [hrsg.] von F. Auerbach. Ed.6. 1893. (Hartleben's elektro-technische bibliothek.)

"Uebersicht der wichtigsten literatur," p.13-16.

A revision of his "Die construction der magnet-elektrischen und dynamo-elektrischen maschinen" (r 621.31 G46).

Attempts to cover the entire field indicated, but is too brief to be satisfactory.

Gray, Alexander.

621.31 G81

Electrical machine design; the design and specification of direct and alternating current machinery. 1913. McGraw.

"As a text used in connection with a lecture course it would give the student an unusually good bird's-eye view of the field; in fact it seems to be the best book published so far for this purpose." *W. T. Ryan, in Electrical review and western electrician, 1913.*

Horstmann, Henry Charles, & Tousley, V. H.

621.31 H81

Practical armature and magnet winding; a comprehensive treatise for the workers, fully illustrating the theoretical principles and shop practice of armature and magnet work. Ed.2, enl. 1916. Drake.

Practical directions.

Jackson, Dugald Caleb, & Jackson, J. P.

621.31 J12a

Alternating currents and alternating current machinery. Enl. & rewritten ed. 1913. Macmillan.

The same. 1897. Macmillan. (In Jackson, D. C. Text-book on electro-magnetism and the construction of dynamos, v.2.)... 621.31 J12 v.2

The same. 1896. Macmillan. (In Jackson, D. C. Text-book on electro-magnetism and the construction of dynamos, v.2.)... 621.31 J12 v.2

"Covers the ground that is needed to give a fairly complete course in the essential elements of alternating currents and their applications to machinery... It has been the authors' aim to produce a text which avoids the fault of being cursorily descriptive, and at the same time avoids the reasonable objections to a treatise which is unrelieved mathematics." *Preface.*

Livingstone, R.

621.31 L74

Mechanical design and construction of generators. 1914. "The Electrician" Printing and Pub. Co. (Electrician series.)

Excludes purely electrical problems and deals only with strength and durability of various parts. Some of the conclusions are open to question and much of the material may be found in books on machine design, applied mechanics and power transmission, but in general this book is the best available (1914) on the subject it treats.

Montpellier, J. A.

qr 621.31 M87

Les dynamos; principes, descriptions, installation, conduite, entretien, dérangements. 1897.

Includes motor troubles and repairs. Mainly an illustrated description of types of electric machines now (1914) of historical interest only.

Morecroft, John Harold.

621.31 M88

Continuous and alternating current machinery; an elementary text-book for use in technical schools. 1914. Wiley. (Wiley technical series.)

Very simple in statement. Non-mathematical except when rudimentary mathematical explanations are unavoidable.

Niethammer, Friedrich.

qr 621.3 H23 v.9

Elektromotoren, umformer und elektrische motorantriebe. Ed.2. 1910. (In Handbuch der elektrotechnik, v.9.)

Pichelmayer, Karl.

qr 621.3 H23 v.5

Dynamobau; berechnen und entwerfen der elektrischen maschinen und transformatoren. 1908. (In Handbuch der elektrotechnik, v.5.)

Raymond, Edward Brackett.

621.31 R24

Motor troubles; the tracing of direct-current and alternating-current motor troubles and the testing of direct-current and alternating-current machinery. 1909. McGraw.

"Methods that many years of experience have demonstrated to be simple and effective." *Preface.*

By an engineer with General Electric Company.

Schulz, Ernst.

r 621.31 S38

Praktische dynamokonstruktion; ein leitfaden für studirende der elektrotechnik. 1893.

Brief. Calculations in simplest possible form.

Schwartze, Theodor.

r 621.31 S39

Die motoren der elektrischen maschinen, mit bezug auf theorie, construction und betrieb. 1884. (Hartleben's elektro-technische bibliothek.)

Still, Alfred.

621.31 S85

Principles of electrical design; d. c. and a. c. generators. 1916. McGraw.

United States—Engineers corps.

r 621.31 U25

Installation, care and operation of 25 kw. gasoline-electric generating sets, G. E. Co., type GM-12; prepared by the Engineer depot, Washington Barracks, D. C. 1916. (Instruction book no.1.)

Walker, Miles.

q 621.31 W17

Specification and design of dynamo-electric machinery. 1915. Longmans. (Longmans' electrical engineering series.)

After a general consideration of materials and of the principles of design, author presents specifications for some of the more usual types of machine, adding to each "a worked-out design, showing at least one method of meeting the prescribed conditions... The general method of design is that employed by many of the engineers of the Westinghouse companies of America and Great Britain who learnt it from Mr. B. G. Lamme." *Preface.*

Waters, William Lawrence.

621.31 W29

Original papers on commercial dynamo design. 1911. Wiley.

These papers written at different periods during the past six years are the result of 15 years' experience as a designing and manufacturing engineer in some of the most important electrical manufacturing concerns in Europe and America. The book makes no pretense to be a comprehensive work but is offered merely as a supplement to treatises on dynamo design. *Adapted from introduction.*

Author is (1911) engineer in charge of high speed machinery, Westinghouse Electric & Manufacturing Co.

Wilson, John Fay.

621.31 W76

Dynamo laboratory outlines for students in electrical engineering. 1913. McGraw.

Contains bibliographies.

Power-plants

Fischer, Ludwig.

qr 621.311 F52

Elektrische licht- und kraft-anlagen, gesichtspunkte für deren projectierung. 1898.

Bibliography, p.6-8.

Comparison of equipment and accessories available at that date (1898).

Frankfort-on-the-Main, International Electrical Exposition, 1891. qr 621.311 F87

Festschrift für die versammlung deutscher städteverwaltungen aus anlass der Internationalen Elektrotechnischen Ausstellung zu Frankfurt a. M. 26-29 August 1891; die versorgung von städten mit elektrischem strom, nach berichten elektrotechnischer firmen über die von ihnen verwendeten systeme; redaktion, F. Uppenborn. 1891.

Gear, Harry Barnes, & Williams, P. F. 621.311 G26a

Electric central station distribution systems; their design and construction. Ed.2, rev. & enl. 1916. Van Nostrand.

The same. 1911.....621.311 G26

Based on articles in "Electrical age," 1908-09. American practice. Largely descriptive and in part adapted to use by practical men.

Kemann, Gustav. qr 621.311 K17

Die Berliner elektrizitätswerke bis ende 1896, geplant und erbaut von der Allgemeinen Elektrizitäts-Gesellschaft. 1897.

Exhaustive and well illustrated account.

Krieg, Martin. r 621.311 K42

Die erzeugung und verteilung der elektrizität in zentral-stationen. v.2. 1888.

v.2. Die erzeugung und verteilung der elektrizität durch gleichstrom-maschinen mit und ohne verbindung von akkumulatoren.

Meyer, F. W. of Germany. r 621.311 M65

Die berechnung elektrischer anlagen auf wirtschaftlichen grundlagen. 1908.

Mathematical discussion and calculation of electrical installations from the economic point of view, to aid in the choice of the most suitable system.

Riha, Johann. r 621.311 R45

Die aufstellung von projekten und kostenvoranschlägen für elektrische beleuchtungs- und kraftübertragungs-anlagen; ein leitfaden für studierende der elektrotechnik, städtische verwaltungsbeamte, architekten und fabrikdirektoren sowie zum selbststudium. 1897.

"Benutzte litteratur," p.433.

Cost data and descriptions of machinery are based on former European practice, but book is of some value for the chapters devoted to theoretical considerations.

Weingreen, Joshua. 621.311 W45a

Electric power plant engineering. Ed.2, rev. & enl. 1913. McGraw.

Does not consider prime movers and pays little attention to generators. Concerned mainly with arrangement and operation of switch-gear. Describes a number of typical stations, giving lay-outs.

Williams, Arthur, & Tweedy, E. F. 621.311 W74

Commercial engineering for central stations; a compilation of papers dealing with subjects of particular interest to those engaged in central station commercial engineering work. 1912. McGraw.

Contents: Estimating the amount of coal required to heat a modern city building.—Cooling the air of buildings by means of mechanical refrigeration.—Mechanical refrigeration for the cold storage of furs and fabrics.—The application of mechanical refrigeration to ice cream making.—Cost of generating electrical energy in steam-driven central stations of small and medium size.—Kilowatt-hour costs in steam-driven generating plants.—Central station load factors.—Electricity in the modern department store.—The passenger elevator in office building service.—Ozone, its production and utilization.—The use of electricity for the disinfection of sewage.

r 621.31102 M16

McGraw central station list, 1916; pub. annually in connection with the McGraw electrical trade directory. 1916.

Succeeds the "List of central stations" formerly contained in the "McGraw electrical directory" (r 621.3202 M16).

Laudien, Karl.

r 621.31103 L36

Stromtarife. 1912.

Discusses principles of determining rate of charge for electric current.

Association of Iron and Steel Electrical Engineers.

r 621.3117 A84

Safety report, 1911. [1911.]

Regulations of various companies, grouped under the following heads: Rules for cranimen; General rules relative to employes of electrical departments; Signs and miscellaneous information.

Direct current

Fritsche, Waldemar.

r 621.312 F95

Die gleichstrom-dynamomaschine; ihre wirkungsweise und vorausbestimmung. 1889.

Theory, classification of direct-current generators, and description of a few types in use at that time (1889).

Hay, Alfred.

621.312 H36a

Introductory course of continuous current engineering. Ed.2, rev. 1916. Constable.

"The aim of the author has been to present the reader with a simple and by no means exhaustive account of the component parts of a continuous current lighting and power plant—dynamos, motors, secondary cells, measuring instruments, etc. The selection and arrangement of these component parts to form a connected system are subjects lying outside the scope of this work. Although introductory...the work is not intended for absolute beginners, and an elementary knowledge of magnetism and electricity is assumed on the part of the reader." *Preface.*

Kinzbrunner, Carl.

621.312 K276g

Die gleichstrommaschine. 1905.

"Literatur," p.2.

Leblond, Henri.

r 621.312 L47

Les moteurs électriques à courant continu. 1894.

Theory, experiment and applications, with special attention to use on ships.

Watson, Arthur Eugene.

621.312 W31h

How to build a direct current one kilowatt dynamo or a one horsepower motor. 1907. Bubier.

Description of mechanical construction of various parts, diagrams and explanation of windings, and calculations according to which the machine was designed.

Alternating current

Arnò, Riccardo.

r 621.313 A751

Trasmissioni e distribuzioni polifasi. 1897.

Arnold, Engelbert, ed.

r 621.313 A75

Die wechselstromtechnik. v.5, pt.1. 1909. Springer.

v.5. Die asynchronen wechselstrommaschinen, von Engelbert Arnold und J. L. La Cour.

For v.1-4 see preceding catalogue, v.4.

- Bailey, Benjamin Franklin.** 621.313 B15
 Induction motor. 1911. McGraw.
 Considers design and characteristics of induction motor, but without going too deeply into theoretical problems. Author limits his discussion almost entirely to devices in successful operation and to those of recent introduction which seem most likely to be of permanent value.
- Barr, James Robertson, & Archibald, R. D.** 621.313 B25
 The design of alternating current machinery. 1913. Macmillan.
 Useful work for advanced students. Covers wide field, including considerable discussion of insulation and static transformers.
- Bast, Omer de.** r 621.313 B29
 Éléments du calcul et de la mesure des courants alternatifs. 1900.
 Written especially for students without previous knowledge of differential or integral calculus.
- Blondel, André Eugène.** 621.313 B56
 Synchronous motors and converters; theory and methods of calculation and testing; tr. from the French by C. O. Mailloux, with additional chapters by C. A. Adams. 1913. McGraw.
 The French original appeared in 1901 and has become a standard work. Material on rotary converters and methods of calculation and testing is from author's papers before the Electrical Congress of 1900 and that of 1904 at Paris and St. Louis respectively. Supplementary chapters by Professor Adams are written from the modern American point of view.
- Cohen, Louis.** 621.313 C66
 Formulae and tables for the calculation of alternating current problems. 1913. McGraw.
 "References," p.263.
 "An attempt has been made here to bring together in a small volume all the important formulæ which are necessary and helpful in the solution of alternating current problems. The aim has been throughout to put the formulæ in such form that they can be immediately applied for numerical calculations; and in those cases where it seemed desirable, the formulæ are illustrated by numerical examples." *Preface.*
- Cohn, Emil.** r 621.313 C66
 Elektrische ströme; 10 vorträge über die physikalischen grundlagen der starkstrom-technik. 1897.
 Moderately technical lectures to engineers, architects, officials and managers.
- Creedy, F.** 621.313 C87
 Single-phase commutator motors. 1913. Van Nostrand. (Electric mechanism, pt.1.)
 Attempts to present a clear and simple general theory. Possesses some novel features, but some of the mathematical propositions are not sufficiently clear.
- Esty, William.** 621.313 E86a
 Alternating-current machinery. 1912. Amer. School of Correspondence.
Contents: Alternating-current principles.—Measuring instruments.—Alternators.—Synchronous motors.—Transformer.—Conversion of alternating into direct current.—Induction motor.—Switchboard and station appliances.
 Intended to give beginners and practical electricians a working knowledge of this apparatus. Only the simplest mathematical knowledge and a general acquaintance with the laws of electricity and magnetism are presupposed.
- Hay, Alfred.** 621.313 H36a3
 Alternating currents; their theory, generation and transformation. Ed. 4, rev. & enl. 1915. Harper.
 "Contains the maximum of information in the minimum space. It is, we imagine, the best book ever written or published on the subjects which it treats." *Electrical engineer, 1906.*

Heinke, Curt.

r 621.313 H42

Wechselstrommessungen und magnetische messungen. 1897. (Voit, Ernst, & Heinke, Curt. *Elektrotechnisches praktikum*, v.2.)

Very good book. Pays slight attention to apparatus or machinery to be tested or to actual procedure in taking measurements. Does give fully the mathematical theory of all important methods of alternating-current and magnetic measurement (1897). Written from the point of view of the laboratory rather than the factory.

Herrmann, Immanuel.

621.313 H47

Elektrotechnik; einföhrung in die moderne gleich- und wechselstromtechnik. v.3. 1905.

Contents: Die wechselstromtechnik; kurze darstellung der gesetze des wechselstromes und beschreibung der generatoren, transformatoren und motoren für wechselstrom.

"Literatur," p.2.

Hobart, Henry Metcalf.

621.313 H64

Design of polyphase generators and motors. 1913. McGraw.

Bibliography, p.247-255.

"While the author has not hesitated to incorporate in his treatise aspects of the subject which are of an advanced character and considerable difficulty, he wishes to disclaim explicitly any profession to comprehensively covering the entire ground." *Preface.*

La Cour, Jens Lassen, & Bragstad, O. S.

621.313 L12

Theory and calculation of electric currents; tr. by S. P. Smith. 1913. Longmans. (*Elements of electrical engineering*, v.1.)

Exhaustive mathematical investigation.

"No very new or epoch-making result is arrived at, but some of the...chapters... are very useful and instructive." *Electrical engineer*, 1913.

Lawrence, Ralph Restieaux.

621.313 L42

Principles of alternating current machinery. 1916. McGraw. (*Electrical engineering texts*.)

Deals with construction and operation only, and is confined to the most important types of alternating-current machines.

Lyon, Waldo Vinton.

621.313 L99

Problems in alternating current machinery. 1914. McGraw.

Concerned chiefly with theory of operation of alternating current machinery. More difficult than F. C. Caldwell's "Electrical engineering problems."

Niethammer, Friedrich.

qr 621.3 H23 v.4

Ein- und mehrphasen-wechselstrom-erzeuger. Ed.2. 1906. (In *Handbuch der elektrotechnik*, v.4.)

[Literaturnachweise], p.5-6.

Rodet, J.

r 621.313 R58

Distribution de l'énergie par courants polyphasés. 1898.

Mathematical. Discusses history, production, transmission and transformation of polyphase currents. Describes typical installations of the period.

Rossi, Andrea Giulio.

r 621.313 R74

Sulla misura delle differenze di fase nelle correnti alternative; monografia premiata dal R. Istituto Lombardo di Scienze e Lettere col premio di Fondazione Cagnola pel 1896. 1897.

Covers fully the methods of measuring phase difference of alternating currents. Has chapters on nature of alternating currents, synchronizing of alternators and on various methods of obtaining alternating current curves. Well up to date at time of publication.

Steinmetz, Charles Proteus.

621.313 S82a2

Theory and calculation of alternating current phenomena. Ed.5, rev. 1916. McGraw.

Uses common algebra and trigonometry, practically excluding calculus.

Transformers

Hobart, Henry Metcalf.

621.314 H64

Design of static transformers. 1911. Constable.

"Bibliography of a number of important papers which have been published during the last 23 years on the subject of the static transformer," p.12-15.

"Mr. Hobart follows the subject through with his customary clearness and logical sequence...confines himself entirely to real practical design, and refers the reader to other works for the academic study of transformer theory." *Electrical engineering*, 1911.

"It is to be regretted that the author saw fit to qualify the apparatus treated by the use of the word 'static' which carries one back to the days of unscientific nomenclature long since revised." *Electrical world*, 1911.

Taylor, William Thomas.

621.314 T25t

Transformer practice; manufacture, assembling, connections, operation and testing. Ed.2, rewritten & enl. 1913. McGraw.

Earlier edition has title "Stationary transformers" (621.314 T25).

For operators and engineers who have to do with installation and operation of transformers.

"Greater portion of the text deals with various transformer combinations...Field is well covered and includes practically all available combinations." *Electrical review and western electrician*, 1913.

Wiring. Conductors. Cables

American School of Correspondence.

621.315 A51

Electric wiring and lighting; a working handbook of approved modern methods of lighting by electricity and of installing conductors for the transmission and utilization of electricity for power, lighting, heating and other uses. 2 pts. in 1. 1909.

Contents: Electric wiring, by C. E. Knox.—Electric lighting, by G. C. Shaad. Brief and elementary.

Auerbacher, Louis John.

621.315 A91

Electrical contracting; shop system, estimating, wiring, construction methods and hints on getting business. Ed.2, rev. 1910. McGraw.

Of particular interest to the small contractor. Outlines field and suggests methods.

Baedeker, Karl, b. 1877.

r 621.315 B14

Die elektrischen erscheinungen in metallischen leitern (leitung, thermoelektrizität, galvanomagnetische effekte, optik). 1911. (Die wissenschaft.)

Carnegie Steel Company, Pittsburgh.

r 621.315 C21

Rules and requirements for the installation of electric wiring and apparatus, adopted July 1, 1911, approved by U. S. Steel Corporation. 1911.

Guide intended to establish uniformity in methods of installation.

Croft, Terrell.

621.315 C88

Wiring of finished buildings; a practical treatise dealing with the

Croft, Terrell—*continued*.

621.315 C88

commercial and the technical phases of the subject, for the central-station man, electrical contractor and wireman. 1915. McGraw.

Working on the basis of the estimate (in 1915) that only eight per cent of all the houses in this country are wired for electricity, the author advocates the extension of this service, and discusses the possibilities. The "commercial section" of the book deals with costs and prices, and outlines campaigns for soliciting and advertising. The "technical section" deals with wiring methods and equipment.

Cushing, Harry Cooke.

621.349 C93s6

Standard wiring for electric light and power; as adopted by fire underwriters throughout the United States. Ed.22. 1916.

The same. Ed.19. 1913.....621.349 C93s4

Sets forth the essential rules and requirements for safe and economical exterior and interior wiring. Follows the requirements of the fire underwriters of the United States.

Devey, Richard George.

621.315 D48

Mill and factory wiring. 1911. Van Nostrand. (Electrical installation manuals.)

Clear practical manual of British practice. Conforms to Board of Trade regulations and gives wiring tables of the Institution of Electrical Engineers.

Engineering Standards Committee.

qr 621.315 E64b

British standard specification for two- and three-plate ceiling roses. 1914. (British standard sections no.67.)

Glover (W. T.) & Co. Manchester, Eng.

r 621.315 G51

Glovers' vade mecum. 1911.

Contains rules and tables concerning the manufacture, use and laying of electric cables. Issued as trade literature, but is a useful pocket-book.

Harrison, Newton.

621.315 H29a

Electric wiring, diagrams and switchboards. Ed.2, rev. & enl. 1916.

Henley.

Intended especially for practical wireman. Treats in an elementary way of the general principles.

Herzog, Josef, & Feldmann, Clarence.

r 621.315 H48

Die berechnung elektrischer leitungsnetze in theorie und praxis. 1893.

Largely theoretical. Includes chapters on arc and incandescent lamps.

Hochenegg, C.

r 621.315 H65

Anordnung und bemessung elektrischer leitungen. 1893.

Handles some practical problems, but is mainly a theoretical investigation, with considerable attention to graphic methods.

Knox, Charles Edwin.

621.315 K35

Electric light wiring. 1907. McGraw.

Discusses systems, methods and wiring calculations. Gives examples of interior wiring and discusses overhead and underground lines.

Maycock, William Perren.

r 621.315 M53

Lektrik lighting connections, with introductory and explanatory notes. Ed.4. 1916. Lundberg.

Many diagrams of switches and connections. Differs considerably from American practice.

Montgomery, John Harold.

621.315 M86e

Electric wiring specifications. 1915. Van Nostrand.

Attempt to specify good modern construction for ordinary work of moderate extent, which may be handled by the architect or contractor in the absence of an electrical engineer.

- Pohl, H. & Soschinski, B.** qr 621.3 H23 v.6
Die leitungen, schalt- und sicherheitsapparate für elektrische starkstromanlagen. 1904-06. (In Handbuch der elektrotechnik, v.6, pt.1-3) "Benutzte literatur," pt.1, p.23-24.
- Sharp, John McReynolds.** 621.315 S53
Practical electric wiring. 1916. Appleton.
Very good practical manual, with questions accompanying text, and numerous illustrations and sketches varying in merit. Conforms to 1913 edition of "National electrical code."
- Slippy, John Clifford.** 621.315 S63
Telephone cables; a handbook of the design, construction and maintenance of the telephone cable plant. 1913. Privately printed. Pittsburgh.
Gives in convenient form for reference, data and information required in cable plant work.
- Teichmüller, Joachim.** r 621.315 T27
Die elektrischen leitungen; ein lehrbuch für studierende. v.1. 1899.
v.1. Wirkungsweise und berechnung der elektrischen gleichstromleitungen.
Clearly written text-book, avoiding higher mathematics. Theory is strengthened by numerous examples of practical application.
- Wilke, Arthur.** r 621.315 W72
Über die gegenseitigen beeinflussungen der fernsprechleitungen nach Müller's theorie. 1896. 621.315 W81
- Wiring diagrams of electrical apparatus and installations.** 1913. McGraw.
Collection of switchboard connections and circuit diagrams representing more or less completely all branches of electrical engineering with the exception of telegraphy and telephony. Brief explanatory notes. Does not include armature winding.
- Zacharias, Johannes.** r 621.315 Z14
Die elektrischen leitungen und ihre anlage für alle zwecke der praxis. Ed.2. 1893. (Hartleben's elektro-technische bibliothek.)
Manufacture of aerial and subterranean conductors for various purposes.
- Girardet, Ph. & Dubi, W.** r 621.3152 G44
Lignes électriques souterraines; études, pose, essais et recherches de défauts. 1910. (Bibliothèque de l'élève-ingénieur.)
Studies underground cables, including installation, tests, location of faults, etc.
- Engineering Standards Committee.** qr 621.31531 E64
British standard specification for wall plugs and sockets (five ampere two-pin, without earthing connection). 1915. (British standard sections no.73.)
- Aluminum Company of America.** r 621.31553 A47
Aluminum electrical conductors. [1915?] Pittsburgh.
High class trade literature, discussing properties, uses, methods of installation and accessories.
- Dusaughey, Ernest.** qr 621.31553 D94
Les conducteurs d'électricité en aluminium; guide pratique pour leur calcul au point de vue électrique et mécanique et pour leur emploi dans l'industrie électrique. 1912.
"The present author, who has designed and erected many important overhead systems, need not fear criticism either of his matter or style, as he knows his subject well and handles it with exemplary clearness." *Electrician*, 1913.
Deals fully with properties of aluminium, calculation and design of conductors, and details of construction work.

Fleming, Arthur Percy M. & Johnson, R. 621.3156 F62
Insulation and design of electrical windings. 1913. Longmans.

Thorough, practical work on the physical characteristics of dielectrics, properties of various insulating materials, design of insulation and windings, and insulation tests.

Frölich, Oskar. r 621.3156 F96

Über isolations- und fehlerbestimmungen an elektrischen anlagen. 1895.

Discusses nature and causes of defective insulation, and methods of locating faults. Much of the apparatus considered is now (1914) obsolete, but the principles and methods outlined may still be of interest.

Hemming, Emile. 621.3156 H43

Molded electrical insulation and plastics. 1914. Clausen.

Concise, authoritative work, based on first-hand information regarding insulating compositions and their applications. General classification is based on characteristic processes of manufacture, no reference being made to individual products.

Peek, Frank William. 621.3156 P36

Dielectric phenomena in high voltage engineering. 1915. McGraw.

Object is "to give...the properties of gaseous, liquid and solid insulations, and methods of utilizing these properties to the best advantage in the problems of high-voltage engineering." *Preface.*

Commonwealth Edison Company, Chicago. r 621.3157 C73

Rules and information pertaining to electric service, meters, wiring and motors; filed with the state Public utilities commission of Illinois, June 1, 1915. 1915.

McLoughlin, Thomas Stanislaus. 621.3157 M19

Questions and answers on the national electrical code; a key and index to the official code. 1912. McGraw.

The "National electrical code," originally drawn in 1897, is a set of rules and requirements governing such electrical wiring as the insurance companies believe affect their fire risks. It is revised biennially and is (1912) the standard authority in the United States, Canada and South America.

"The Code addresses itself first, last and all the time to the fire risk..but is not officially concerned at all with economy, convenience, correct illumination, or the ordinary, every-day reliability of the work, except incidentally." *Page 1.*

Underwriters' Laboratories. r 621.3157 U25

Standards for rubber covered wires and cables, including label service manual, "National electrical code" specifications and Underwriters' Laboratories' standards for physical and chemical tests of rubber compounds used for electrical insulation; edition of June 1915. 1915.

Electric distribution. Electric testing

Miller, Oskar von, & Hassold, A. qr 621.316 M69

Die versorgung der städte mit elektricität. v.1. 1896. (Der städtische tiefbau, v.5.)

Deals largely with distribution.

Collins, Edgar Francis. 621.318 C71

Commercial electrical testing. 1913. General Electric Review.

Author is (1913) technical superintendent of the General Electric Company's Schenectady works.

Karapetoff, Vladimir.

qr 621.318 K13e

Elementary electrical testing; a manual for technical high schools and for evening classes in applied electricity and electrical machinery. 1913. Wiley. (Wiley technical series.)

Loose-leaf laboratory manual.

Selection of experiments is good. Principles underlying the experiments are not given.

Morecroft, John Harold, & Hehre, F. W.

621.318 M88

Short course in the testing of electrical machinery, for non-electrical students. 1911. Van Nostrand.

"Covers in a clear, concise and logical manner the fundamental principles, connections, test and normal operating characteristics of those forms of electrical machinery which the non-electrical engineer is most likely to encounter in practice." *School of Mines quarterly*, 1912.

Westinghouse Electric & Manufacturing Co.

r 621.318 W56

Factory testing, Nov. 1910–July 1913. Section 1–8, in IV. 1910–13. East Pittsburgh.

Section 1–5 title reads "Motor and generator testing."

Electric lighting

For Illumination engineering, see 628.9

Blessinger, H.

qr 621.32 B54

Die elektrische beleuchtung industrieller anlagen einschliesslich aller theile in theorie und praxis, für nicht-elektrotechniker. 1892.

Elementary book, with theory clearly presented.

Fodor, Étienne de.

r 621.32 F68

Materialien für kostenvoranschläge elektrischer lichtenanlagen. 1888. (Hartleben's elektro-technische bibliothek.)

Equipment of electric light plants and brief discussion of illumination of industrial works.

Fontaine, Hippolyte.

qr 621.32 F73

Éclairage électrique; monographie des travaux executés par le Syndicat International des Electriciens [Paris, Exposition Universelle de 1889]. 1890.

Franklin, William Suddards.

621.32 F88

Electric lighting and miscellaneous applications of electricity; a text book for technical schools and colleges. 1912. Macmillan.

"Companion volume to 'Dynamos and motors.' In the preparation of these two volumes especial attention has been given to the physical principles which underlie operating engineering but little attention has been given to the principles of design." *Preface*.

Grünwald, F. ed.

r 621.32 G94

Der bau, betrieb und die reparaturen der elektrischen beleuchtungsanlagen; ein leitfaden für monteure, werkmeister, techniker, etc. Ed.6. 1897.

Useful handbook for electricians having some knowledge of mathematics. Obsolete as regards German practice in light installation, but of some value on maintenance and repair of electrical machinery.

Heim, Carl.

r 621.32 H41

Die einrichtung elektrischer beleuchtungsanlagen für gleichstrom-betrieb. 1892.

Deals pretty fully with the arrangement, equipment and accessories of electric light plants. Considerable attention to cost data.

Herzog, Josef, & Feldmann, Clarence. r 621.32 H48

Handbuch der elektrischen beleuchtung. 1898.

Comprehensive work. Gives some theory of conductors, insulation and regulation. The parts which are furthest out of date are the descriptions of lamps and of central station arrangement.

Horstmann, Henry Charles, & Tousley, V. H. 621.32 H81

Modern illumination; theory and practice; a handbook of practical information for the users of electric light, architects, contractors and electricians. 1912. Drake.

Practical. Devoted mainly to consideration of equipment and installation of electric light for various purposes.

Lehmann, Otto, b. 1855. r 621.32 L55

Elektricität und licht; einföhrung in die messende elektricitätslehre und photometrie. 1895.

Merling, A. r 621.32 M638

Die elektrische beleuchtung in systematischer behandlung; construction und betriebsverhältnisse der lichtmaschinen, elektrischen lampen und kerzen; für ingenieure, architekten, industrielle und das gebildete publikum. 1882. (Elektrotechnische bibliothek, v.1.)

Mainly brief descriptions of generators, arc lamps and incandescent lamps. Many early types included. Brief attention to installation and maintenance.

Monasch, Berthold. 621.32 M81

Elektrische beleuchtung. Ed.2. 2v. in 1. 1910.

v.2 contains "Die fortschritte der jahre 1906-1910."

"Good compendium of electric lamps and lighting under up-to-date middle European conditions." *Electrical world*, 1911.

Treatment of recent advances in the field of the new metallic filament lamps will be especially useful.

National Electric Light Association. r 621.32 N15m

Modern industrial lighting. 1912.

Pamphlet presenting arguments in favor of good lighting and outlining features of industrial electric lighting practice.

Piazzoli, Emilio. r 621.32 P53

Impianti di illuminazione elettrica; manuale pratico. Ed.3, rev. 1897.

"Bibliografia," p.7-8.

Strelinger (Charles A.) Co. Detroit. r 621.32 S91

Brush balanced engine and direct-connected lighting set. 1910.

Trade literature, giving some practical information on gas-engines and electrical machinery.

Urbanitzky, Alfred, ritter von. r 621.32 U27e

Die elektrischen beleuchtungs-anlagen, mit besonderer berücksichtigung ihrer praktischen ausführung. Ed.3. 1898. (Hartleben's elektro-technische bibliothek.)

Very brief discussion of prime movers, generators, distribution and control of current, and a fairly detailed consideration of various types of lamps and their application. Of historic interest only (1914).

Arc lighting

Child, Clement Dexter. 621.321 C43

Electric arcs; experiments upon arcs between different electrodes in various environments and their explanation. 1913. Van Nostrand.

Concerned with theoretical and experimental rather than with commercial considerations. Gives rather full accounts of experiments on the mercury arc and other recent developments.

Johnson, John Henry.

621.321 J36

Arc lamps and accessory apparatus. 1911. Van Nostrand. (Electrical installation manuals.)

Primer dealing with characteristics of various types and with many applications.

[**Tucker, George, publisher, comp.**]

621.3213 T81

Manufacture of electric arc carbons. [1915.] "The Electrician" Printing and Pub. Co. (Electrician series.)

Taken from the books by Francis Jehl and by O. G. Pritchard, with brief items from other sources.

Incandescent lighting

Barham, George Basil.

621.322 B23

Development of the incandescent electric lamp. 1912. Scott.

Puts into accessible form the records scattered through periodical and patent literature. Reviews history of early forms, development of carbon filament and the later metallic filament lamps. Ends with development of "helion" lamp, with composite filament of carbon and silicon.

Edison Lamp Works of General Electric Company,

r 621.322 E28

Harrison, N. J.

Handbook on incandescent lamp illumination. 1916.

General Electric Company, Schenectady, N. Y.

r 621.322 G29

Handbook on incandescent lamp illumination. 1913.

Information on illumination calculations, and on history, manufacture, installation and performance of incandescent lamps.

Ogley, Daniel H.

621.322 O17

Incandescent electric lamps and their application. 1914. Longmans. (Longmans' technical handicraft series.)

Brief review of photometric methods, manufacture of incandescent filament lamps and application to interior lighting.

Sawyer, William Edward.

r 621.322 S27

Electric lighting by incandescence and its application to interior illumination; a practical treatise. Ed.3. 1882. Van Nostrand.

Record of development before 1882, with an attempt to indicate the direction of future progress. Discusses generation, distribution, and regulation of current, and describes the early types of carbon lamp. Of considerable historical interest.

Zacharias, Johannes.

r 621.322 Z14

Die glühlampe; ihre herstellung und anwendung in der praxis. 1890. (Hartleben's elektro-technische bibliothek.)

Describes manufacture of lamps and traces history to end of the first decade after the carbon filament lamp became a commercial possibility.

Müller, N. L.

r 621.3224 M95

Die fabrikation und eigenschaften der metalldrahtlampen. 1914.

Treats comprehensively different manufacturing processes for metallic-filament incandescent lamps, particularly according to European practice. Periodical and patent literature referred to freely.

Weber, C. Heinrich.

r 621.3224 W37

Die elektrischen metallfadenglühlampen, insbesondere aus osmium, tantal, zirkon und wolfram; ihre herstellung, berechnung und prüfung. 1914.

Discusses development of various metallic and metallized filament incandescent lamps, but deals principally with manufacture of the tungsten filament type.

Engineering Standards Committee.

qr 621.326 E64

Report of experiments on tungsten filament glow lamps carried out by the National Physical Laboratory. 2 pts. in iv. 1913. (British standard sections, no.60.)

Street lighting**Bryant, John Myron, & Hake, H. G.**

r 620.1 I22 no.51

Street lighting. 1911. (In Illinois University—Engineering experiment station. Bulletin no.51.)

National Electric Light Association.

r 621.32811 N15

Report of committee on electric advertising and decorative street lighting; read before the association, June 1912.

Pamphlet. Gives data on installations in 50 cities of the United States and Canada.

Lacombe, Charles Frederick.

r 621.32821 L12

Report to the Milwaukee Electric Railway & Light Company on the present conditions in the city of Milwaukee; a criticism of a proposed plan for lighting same and suggestions as to a practical plan to be installed and operated. [1915.]

Electric railways**Buck, Alonzo Morris.**

621.33 B85

Electric railway. 1915. McGraw.

Clearly written text-book, combining theory with descriptive matter. Written from the point of view of the designing engineer.

Burch, Edward Parris.

621.33 B89

Electric traction for railway trains; a book for students, electrical and mechanical engineers, superintendents of motive power and others interested in the development of electric traction for railway train service. 1911. McGraw.

"Literature" at the end of many of the chapters.

Detailed, comprehensive treatise, presenting advantages and possibilities of electrification. More valuable as a reference work for engineers than Sheldon's "Electric traction" (621.33 S54), but less satisfactory as a text-book.

Chicago—City council—Committee on local transportation.

r 621.33 C43

The electrification of railway terminals as a cure for the locomotive smoke evil in Chicago, with special consideration of the Illinois Central Railroad. 1908.

Fischer, Louis Engelmann.

621.33 F52

Economics of interurban railways. 1914. McGraw.

Summary of economic results of electric interurban railway service. Considers cost of construction, cost of operation, and operating revenues.

Guyer-Zeller, Ad. comp.

qr 621.33 G99

Das projekt der Jungfraubahn, wissenschaftlich, technisch und finanziell beleuchtet. 1896.

Pamphlet. Many plates.

- Harding, Charles Francis.** 621.33 H25a
Electric railway engineering [written with the assistance of] D. D. Ewing. Ed.2, rev. & enl. 1916. McGraw.
"While...planned primarily for a senior elective course...does not involve higher mathematics...Does not purport to present any great amount of new material...but...does gather in convenient form present day theory and practice in all important branches of electric railway engineering." *Preface.*
- Maréchal, Henri.** r 621.33 M37
Les tramways électriques. 1897.
Written when France had comparatively few electric lines, and based to some extent on American practice at that time. Deals with road-bed, rolling-stock and equipment.
- Meyer, Gustav Wilhelm.** r 621.33 M65
Der elektrische betrieb von fernschnellbahnen; unter benutzung eines vor der Technical Society of New-York gehaltenen vortrages. 1902.
Arguments in favor of general electrification of railways. Describes modern (1902) systems of electric traction, favoring three-phase system for railways.
- Norris, Henry Hutchinson.** 621.33 N45
Electric railways; a comprehensive treatise on modern electric railway practice, including practical details of equipment, power house design, maintenance of way and management. 1913. Amer. School of Correspondence.
Elementary manual prepared for instruction in American School of Correspondence. Deals very briefly with rolling stock, its equipment and maintenance, power-plant, transmission, track construction, and electrification of steam roads.
- Pennsylvania—Railways bureau.** r 621.33 P39
Classification of operating expenses, operating revenues and expenditures for road and equipment for the use of electric railways. 1911.
Adopted as standard by the American Street and Interurban Railway Accountants' Association, Oct. 15, 1908. Substantially conforms with the classifications prescribed by the Interstate commerce commission.
- Richey, Albert Sutton.** r 621.33 R42
Electric railway handbook; a reference book of practice data, formulas and tables for the use of operators, engineers and students [written with the assistance of] W. C. Greenough. 1915. McGraw.
Primarily for the operating or constructing engineer, and intended to be limited to subjects likely to arise in every-day practice.
- Schiemann, Max.** r 621.33 S33
Elektrische fernschnellbahnen der zukunft; populäre volkwirtschaftliche eisenbahnskizze. 1897.
- Walckenaer, C.** qr 621.33 W15
Note sur la traction électrique à prise de courant aérienne. 1897.
Brief, moderately technical discussion, dealing with generation and distribution of electricity and equipment of cars.
- American Electric Railway Association.** r 621.3306 A51
Year book, 1913/14-date. 1914-date.
- Austin, Edwin.** q 621.3314 A93
Single-phase electric railways. 1915. Van Nostrand.
Most of the chapters appeared originally in the "Engineer," in England, where but little single-phase work has been installed. Mainly a description of systems in continental Europe and the United States.

Electrolytic corrosion

Ganz, Albert Frederick. r 621.332 G17

Electrolysis from stray electric currents; a lecture delivered before the American Water Works Association at Louisville, Ky. June 6, 1912.

The same. (In American Water Works Association. Proceedings, v.32, p.159-198.).....r 628.1 A51 v.32

Ganz, Albert Frederick. r 621.332 G17

Electrolytic corrosion of iron by direct current in street soil. 1912. Amer. Institute of Electrical Engineers.

Bound with his "Electrolysis from stray electric currents."

qr 621.332 R35

Report on electrolysis conditions in Springfield, Ohio; report of a joint investigation and conference by authorized representatives of the National Bureau of Standards, city of Springfield and the public utility companies interested in electrolysis mitigation in Springfield. 1914.

Engineering Standards Committee. qr 621.3322 E64

British standard method of specifying resistance of steel conductor rails. 1914. (British standard sections no.68.)

Maintenance

Jackson, Walter. 621.338 J12

Electric car maintenance; selected from the Electric railway journal. 1914. McGraw.

Compilation of information on current (1914) shop practice and equipment.

Transmission. Switches. Electricity in mines

Capart, G. qr 621.34 C17

La protection des réseaux et des installations électriques contre les surtensions. 1914.

Dwight, Herbert Bristol. 621.34 D97

Transmission line formulas for electrical engineers and engineering students. 1913. Van Nostrand.

Working formulas for transmission line calculations. Theory and derivation are discussed apart from use of formulas. Use of the formulas does not require a knowledge of higher mathematics.

Ferguson, Olin Jerome. 621.34 F38

Elements of electrical transmission; a text-book for colleges and technical schools. 1911. Macmillan.

Elementary course. Covers also generation, distribution and measurement.

"Combines in an excellent manner theoretical considerations with the everyday practical requirements of the apparatus discussed." *Sibley journal of engineering*, 1911.

Japing, Eduard. r 621.34 J18

Die elektrische kraftübertragung und ihre anwendung in der praxis, nach dem tode des verfassers neu bearbeitet von J. Zacharias. Ed.3. 1891. (Hartleben's elektro-technische bibliothek.)

Lundquist, R. A. 621.34 L97

Transmission line construction; methods and costs. 1912. McGraw.

Contents: Preliminary work.—Location of line-surveys and engineering.—Types of construction.—Wooden pole construction.—Steel pole construction.—Steel tower con-

Lundquist, R. A.—*continued.*

621.34 L97

struction.—Reinforced concrete construction.—Special structures.—Cross-arms, hardware, pins and insulators.—Guying.—Stringing wire.—Cost data of typical transmission lines.

Practical work, from the standpoint of the construction man, with no attempt to cover the electrical and mechanical calculations involved.

Meissner, G.

r 621.34 M57

Die kraftübertragung auf weite entfernungen und die konstruktion der triebwerke und regulatoren, für konstruktoren, fabrikanten und industrielle; hrsg. von Josef Krämer. Ed.2. v.1. [1870.]

Data and descriptions of machinery are now obsolete. Chapters on theory are still of interest.

Paris—Conseil municipal.

qr 621.34 P23

Les transmissions électriques d'énergie en Italie; voyage d'études (8–29 mai 1910); rapport [de la première commission du Conseil municipal, Préfecture de la Seine]. 1911.

Patchell, William Henry.

621.34 P29

Application of electric power to mines and heavy industries. 1913. Constable.

Gives comprehensive survey of application to mines, showing practical understanding of mining and engineering problems in English practice. Brief treatment also of electric driving of pumping-machinery, rolling-mills, machine-tools and cranes.

Afan de Rivera, Achille.

r 621.341 A25

Acqua, elettricità, trazione; questioni ferroviarie urgenti. 1898.

Plea for the development of Italy's water-power, outlining the advantages of hydro-electric power for transportation purposes.

Allgemeine Elektrizitäts-Gesellschaft, Berlin.

qr 621.341 A43

Kraftübertragungswerke Rheinfelden. 1896.

Mississippi River Power Company, Keokuk, Ia.

r 621.341 M74

Electric power from the Mississippi river; bulletin, March–July 1913. no.9–10. [1913.]

Mississippi River Power Company, Keokuk, Ia.

qr 621.341 M74r

Report of progress (1st–2d) to Jan. 1, 1913. [1912–13.]

Association of Mining Electrical Engineers.

r 621.343 A84

Proceedings, session 1909/10–1910/11. v.1–2.

British society organized to promote application of electricity in mines and to foster methods and devices tending to increase safety.

Brunswick, E. J.

q 621.343 B83

L'électricité dans les mines; applications diverses, extraction. 1910.

Considers electrical equipment of mines in general. Treats lighting very briefly. Based on report made in 1908, to which have been added detailed descriptions of selected typical installations.

Coombs, Robert Duncan.

621.343 C78

Pole and tower lines for electric power transmission. 1916. McGraw.

Deals with civil engineering problems in connection with design and erection of wood, concrete and steel structures.

Freudemacher, Percy William.

621.343 F93

Electrical mining installations. 1911. Van Nostrand. (Electrical installation manuals.)

Special reference to practice in British collieries.

Kapper, F.

q 621.343 K13

Overhead transmission lines and distributing circuits; their design and construction; tr. by P. R. Friedlaender. 1915. Van Nostrand.

Mathematical presentation of fundamental principles. The structures and accessories considered are mainly those of German design.

Lapostolest, N.

qr 621.343 L31

Traité général de l'emploi de l'électricité dans l'industrie minière. 1904.

Considers briefly the generation and distribution of electricity, and discusses application and regulation in mine operation.

National Electric Light Association.

621.343 N15

Handbook on overhead line construction; comp. by the Subcommittee on overhead line construction. 1914.

Compilation reviewing methods and materials employed in modern overhead line construction. Contains brief dictionary of electrical terms, meteorological data and a chapter on resuscitation from electric shock.

Semenza, Guido, & Semenza, Marco.

q 621.343 S47

Graphical determination of sags and stresses for overhead line construction; tr. from the Italian by C. O. Mailloux. 1915. McGraw.

"Bibliography," p.23-24.

The suspension of metallic conductors is complicated by variations due to changes in temperature and to action of wind, snow and ice. From the charts here given, the proper sag, and the proper stress or tension for *copper* conductors under various conditions, may be read directly, no calculations being required. The centigrade temperatures and metric measurements of the original have been converted for American readers.

"The senior author...holds a high place among the world's electrical transmission engineers. He was the originator of the flexible pole or tower used extensively in transmission systems in both Europe and this country." *Engineering record*, 1915.

Still, Alfred.

621.343 S85

Overhead electric power transmission; principles and calculations. 1913. McGraw.

Presentation of scientific principles for use of the practical designer of transmission lines. Supplements Lundquist's "Transmission line construction," which deals with the practical details of erection work.

Edler, Robert.

621.344 E28s

Switches and switchgear; tr. by Ph. Laubach. 1913. Constable.

Valuable addition to the scanty literature of this subject. Deals primarily with German apparatus, but English units are used and fundamental principles are well presented.

Maycock, William Perren.

621.344 M53

Small switches, etc. and their circuits. 1911. Rentell.

Trade literature, of some value to those interested in wiring, though dealing mainly with types of apparatus different from those used in America.

Accumulators

Bibliography

New York (city)—Public library. Astor, Lenox q 016.621351 N26 and Tilden foundations.

Storage batteries; a list of references, 1900-15. 1915.

The same. (In its Bulletin, v.19, p.365-399.).... qr 017.1 N2611 v.19

General works

- Heim, Carl.** r 621.351 H41
 Die accumulatoren für stationäre elektrische anlagen. Ed.2, enl. 1897.
 Popular guide for practical central station man. Gives fundamental principles, manufacture and applications, with special reference to electric lighting. Avoids chemical theory of the cell, and describes only types actually built at the time (1897).
- Hoppe, Edmund.** r 621.351 H78
 Die accumulatoren für elektricität. 1888.
 Deals with physical principles; construction; scientific investigation of the chemistry and efficiency of storage batteries; and technical applications. Partly a compilation.
- Kollert, Julius August, & Sieg, E.** qr 621.3 H23 v.3
 Stromquellen und akkumulatoren. 1901. (In Handbuch der elektrotechnik, v.3.)
- Morse, Harry Wheeler.** 621.351 M92
 Storage batteries; the chemistry and physics of the lead accumulator. 1912. Macmillan.
 Goes quite deeply into theory, discussing fundamental reactions, life of the cell and its behavior in service, without attempting to deal with storage battery engineering.
- Niblett, J. T.** 621.351 N31st
 Storage batteries, stationary and portable; a clear exposition of the principles governing the action of storage batteries, detailed instructions regarding their construction, care and maintenance. 1911. Drake.
 Brief, mainly descriptive, and not very well arranged.
- Schoop, Paul.** r 621.351 S37s
 Die sekundär-elemente auf grundlage der erfahrung. 3v. in 1. 1895. (Encyklopädie der electrochemie, v.4-6.)
 Theory and construction of lead, zinc-copper and zinc-lead storage batteries. Contains list of patents.
- Tamine, René.** r 621.351 T17
 Recherches théoriques et pratiques sur les accumulateurs électriques. 1885.
 Fairly complete summary of investigation to 1885. Partly descriptive, but the most important part is a discussion of the characteristics and applications of storage batteries.
- Edison Storage Battery Company, Orange, N. J.** r 621.3519 E28
 Edison alkaline storage battery. 1916. (National Education Association joint-committee monograph series.)

Electric heating. Electric furnaces. Electric welding

- Engelhardt, Viktor, and others.** qr 621.3 H23 v.11
 Wärmetechnik und signalwesen. 1908. (In Handbuch der elektrotechnik, v.11, pt.2.)
 "Benutzte literatur," p.559.
- Lancaster, Mrs Maud.** 621.3645 L21
 Electric cooking, heating and cleaning; a manual of electricity in the service of the home; ed. by E. W. Lancaster; American edition revised by S. L. Coles. 1914. Van Nostrand.
 Outlines principles briefly and gives considerable attention to costs, but is mainly descriptive. Presents a very favorable case for adoption of electricity in domestic work. Includes application to equipment for sewing, washing, ironing, food chopping, ice making and vacuum cleaning, and to cooking for domestic and hotel service.

Minet, Adolphe.

qr 621.365 M72

Le four électrique; son origine, ses transformations et ses applications. pt.1. 1905.

"Bibliographie," pt.1, p.36-38.

Of considerable value on history and development. Describes early laboratory furnaces, and practical applications up to 1905.

Nicou, Paul René.

qr 621.365 N32

Le haut fourneau électrique. 1913.

Reprinted from "Annales des mines," v.222, 1913.

Affords a better view than is to be found in one place elsewhere, of work in electro-thermal production of pig-iron. Largely a summary of Canadian and Swedish research.

Stansfield, Alfred.

621.365 S79a

The electric furnace; its construction, operation and uses. Ed.2, rev. & enl. 1914. McGraw.

Simple explanation of the principles on which its construction and use depend, with an account of its history and present (1907) development. Considerable space given to its use in steel making.

New York (city)—Public library. Astor, Lenox
and Tilden foundations.

qr 016.621392 N26

List of works relating to electric welding. 1913.

The same. (In its Bulletin, v.17, p.375-395.)qr 017.1 N2611 v.17

Internal combustion engines

Gas engines

American School of Correspondence.

621.43 A51

Gas engines and producers; a treatise on the modern development of the internal-combustion motor and of efficient methods of fuel economy and power production. 2 pts. in iv. 1913.

Contents: Gas and oil engines, by L. S. Marks.—Gas-producers, by S. S. Wyer.

Brief, elementary work. Practical in the main, but gives some attention to theory. Each author is an authority on the subject with which he deals.

Askling, Carl Wilhelm, & Roesler, Ernst.

621.43 A83

Internal combustion engines and gas-producers. 1912. Griffin.

Gives the essential principles and facts underlying the subject and describes types of gas and oil engines and producers, as manufactured by different firms.

Butler, Edward.

621.43 B97

Evolution of the internal combustion engine. 1912. Griffin.

Deals to a very limited extent with historical development. Devoted chiefly to construction and working of large and small internal combustion engines.

621.43 C19

Care and repair of gas and oil engines. 1914. Industrial Press. (Machinery's reference series.)

Prepared mainly from a series of notes compiled by J. L. Hobbs.

Includes a brief chapter on installation.

Clerk, Dugald.

621.43 C57a

Gas, petrol and oil engine. Rev. ed. v.2. 1913. Wiley.

v.2. The gas, petrol and oil engine in practice, by Dugald Clerk and G. A. Burls.

"Mr Dugald Clerk...has made the gas-engine field his own by reason of his investigations, his inventions and his publications. If the name 'authority' may be used in respect to any one in engineering work it should be applied to him in this special field." *Lionel S. Marks, in Engineering news, 1909.*

For v.1 see preceding catalogue, v.6.

International Harvester Company. r 621.43 I248

Engine operators' guide; ed. by C. E. Leslie. Ed.5, rev. & enl. 1914.

Brief manual dealing with the internal combustion engine, its installation and adjustment and the location and correction of troubles.

Kirschke, Alfred. 621.43 K29

Die gaskraftmaschinen; kurzgefasste darstellung der wichtigsten gasmaschinen-bauarten. 1907.

"Literatur," p.6.

Rathbun, John B. 621.43 R21

Practical hand book of gas, oil and steam engines. 1913. Thompson.

Contents: Heat and power.—Fuels.—Working cycles.—Indicator diagrams.—Typical four stroke cycle engines.—Typical two stroke cycle engines.—Oil engines.—Ignition systems.—Carburetors.—Lubrication.—Cooling systems.—Speed governors.—Tractors.—Oil burners.

Streeter, Robert Leroy. 621.43 S91

Internal combustion engines, theory and design; a text book on gas- and oil-engines for engineers and students in engineering. 1915. McGraw.

Includes review of thermodynamics, but assumes some previous knowledge of this subject and of mechanics.

Verrill, Alpheus Hyatt. 621.43 V28

Harper's gasoline engine book; how the engine is made, how to use it at home, in boats and vehicles and elsewhere, and how to keep it in order. 1914. Harper.

Elementary book for young readers or practical operators. Explains briefly the working of the gas-engine, and discusses maintenance and repair. Considers stationary motors and application to boats, automobiles and motor-cycles.

Wimperis, Harry Egerton. 621.43 W77P

Primer of the internal combustion engine. 1912. Constable.

"Bibliography," p.136.

Good elementary text-book, with special reference to the small gasoline engine.

Ballou, Eugene. r 621.432 B21

Facts about the "Silent Knight" motor. 1913. Privately printed.

Exposition of the advantages of the sliding sleeve-valve engine.

Jones, Forrest Robert. 621.432 J39

Electric ignition for combustion motors. 1912. Wiley.

Descriptive and only moderately technical. Includes a large number of devices and systems.

Norris, Earle Bertram, and others. 621.432 N45

Gas engine ignition; prepared in the Extension division of the University of Wisconsin. 1916. McGraw. (Engineering education series.)

Pfanstiehl, Carl Alonzo. 621.4324 P47

Ignition. 1912. Penton.

Explains simply and clearly the fundamental principles of electric ignition as applied to gas-engine operation.

Burls, George Arthur. 621.43275 B92

Aero engines, with a general introductory account of the theory of the internal-combustion engine. 1915. Griffin. (Griffin's aeronautical series.)

Description of various types. Theoretical material brief.

Oil engines

Chalkley, Alfred Percy. 621.434 C35

Diesel engines for land and marine work, with an introductory chapter by Rudolf Diesel. Ed.2. 1912. Constable.

Compilation of useful information on the underlying principles, working and construction of Diesel engines. Gives much attention to descriptions of actual types manufactured. Will not be of great use to the designer.

Goldingham, Arthur Hugh. 621.434 G58

Marine and stationary Diesel engines; described and illustrated with numerous original formulæ for their design and instructions for installation and operation. 1915. Spon.

Brief work, describing various commercial types and dealing largely with operation.

Lorfèvre, Jean. r 621.434 L87

La pratique des moteurs Diesel; description, conduite, incidents de marche. 1914.

Supino, Giorgio. 621.434 S95

Diesel-motoren; ins deutsche übertragen von Hans Zeman. 1913.

General consideration of construction and operation of Diesel engines. Includes diagrams and mathematical calculations.

Supino, Giorgio. 621.434 S95l

Land and marine Diesel engines; tr. by A. G. Bremner and James Richardson. 1915. Griffin.

By an engineer prominent in the development of this type of engine. Book is recognized as a standard work in continental Europe, where practice is furthest advanced (1915).

Wells, George James, & Tayler, A. J. Wallis. 621.434 W49

The Diesel or slow-combustion oil engine; a practical treatise on the design and construction of the Diesel engine for the use of draughtsmen, students and others. 1914. Lockwood.

Contains some theoretical calculations, but is largely descriptive. Discusses fuels, engine testing, present (1914) types of construction and probable future applications.

Gas turbines

Davey, Norman. 621.438 D29

The gas turbine. 1914. Constable.

List of gas turbine patents in the English patent office, p.241-244.

Theory and practice. The most comprehensive book on the subject (1914).

Holzwarth, Hans. 621.438 H75

The gas turbine; theory, construction and records of the results obtained from two actual machines; tr. by A. P. Chalkley, with additional notes by the author. 1912. Griffin.

Deals with theory and briefly with construction and tests of author's type of gas turbine. Author is an enthusiast and perhaps too optimistic regarding future of the gas turbine.

Ventou-Duclaux, L. r 621.438 V26

Les turbines à gaz. 1912.

"Liste des brevets [français] concernant les turbines à gaz," p.96-112.

Discusses briefly the principles of thermodynamics and reviews patent literature. Offered as a guide to the inventor, but is of slight importance as a technical treatise.

Compressed air

Richards, Frank.

621.5 R39c

Compressed air practice. 1913. McGraw.

Covers theoretical and practical features of compressor design and operation, and describes applications of compressed air.

Simons, Theodore.

621.5 S61

Compressed air; a treatise on the production, transmission and use of compressed air. 1914. McGraw.

Brief text-book presenting fundamental principles. Its use requires knowledge of only algebra, physics and mechanics.

Thorkelson, Halsten Joseph Berford.

621.5 T39

Air compression and transmission. 1913. McGraw.

Brief and rather fragmentary. Mainly compilation.

qr 621.505 C68

Refrigerating world [monthly], 1912-date. v.43-date. 1912-date.

v.43-45, 1912-June 1913, title reads "Cold storage and ice trade journal."

qr 621.505 Z43

Zeitschrift für die gesamte kälte-industrie; zugleich Zeitschrift des Deutschen Kälte-Vereins [monthly], 1913-date. 20. jahrgang-date.

Vacuum cleaning

Cooley, Maxwell Stephens.

621.543 C78

Vacuum cleaning systems; a treatise on the principles and practice of mechanical cleaning. 1913. Heating and Ventilating Magazine Co.

Deals with history of mechanical cleaning, modern apparatus, and its testing, selection and control. Contains specifications. Deals briefly with mechanical scrubbing devices.

Moore, Edwin Joseph.

r 621.543 M87

Hand book on vacuum cleaning plants; a treatise for the use of architects; drawing specifications for cleaning plants. 1912. [Fuller Pub. Co.]

Principles of operation and general construction of various types; consideration of requirements and typical specifications.

Refrigeration. Cold storage

American Association of Refrigeration.

r 621.55 A512bg

Bulletin issued by the Commission on gases and units. no.1-date. 1915-date.

American Association of Refrigeration.

r 621.55 A512b

Bulletin issued by the Commission on industrial refrigeration, 1912-date. no.1-date. 1912-date.

American Association of Refrigeration.

r 621.55 A512

Proceedings, annual meeting (5th-6th), 1915-16. [1915-16.]

For volumes for 1910, 1912 see preceding catalogue, v.6.

Arrowood, Milton W.

621.55 A77

Refrigeration; a practical treatise on the production of low temperatures as applied to the manufacture of ice and to the design and operation of cold storage plants. 1913. Amer. School of Correspondence.

Clear, practical treatment. Takes up successively theoretical and general descriptive considerations, descriptions of commercial machines, and operation and management of plant.

International Association of Refrigeration.

r 621.55 I2483

Bulletin; monthly, Aug. 1910–date. v.1–date. 1910–date.

v.1, no.1–3, title reads "English edition of the monthly bulletin."

International Congress of Refrigeration (2d),

qr 621.55 I2482

Vienna, 1910.

English edition of the reports and proceedings. 1911.

Reports of first congress will be found under International Congress of Refrigerating Industries (1st), Paris, 1908.

Lorenz, Hans, & Heinel, C.

r 621.55 L87

Neuere kühlmashinen; ihre konstruktion, wirkungsweise und industrielle verwendung, ein leitfaden für ingenieure, techniker und kühlanlagen-besitzer. Ed.5, enl. 1913. (Oldenbourgs technische handbibliothek.)

Clear and fairly comprehensive, with many drawings and illustrations of types of refrigerating machinery.

Macintire, Horace James.

621.55 M17

Mechanical refrigeration; a treatise for technical students and engineers. 1914. Wiley.

Well illustrated text-book, discussing theory of refrigeration, types of refrigerating machines, industrial applications and heat insulation.

Matthews, Frank E.

621.55 M47

Elementary mechanical refrigeration; a simple and non-technical treatise. 1912. McGraw.

Intended as a help to the busy man rather than as a text-book.

Tayler, Alexander James Wallis.

621.55 T24a

Refrigeration, cold storage and ice-making; a practical treatise.

Ed.3, rev. 1912. Lockwood.

"Bibliography," p.602–604.

With this is incorporated ed.3 of his "Refrigerating and ice-making machinery." Comprehensive and up-to-date (1912).

Can be recommended "as giving an intelligent description of the machinery and processes, as also of the facts, figures and tabulated physics, of refrigeration." *Practical engineer*, 1912.

r 621.5502 I13

Ice and cold storage trades' directory and handbook for all connected with the refrigerating industry and allied trades in the United Kingdom, 1913. v.13. 1913. Iliffe.

Cold [monthly], Nov. 1912–date. v.4–date. 1912–date. r 621.5505 C68

American Association of Refrigeration.

r 621.56 A51

Bulletin issued by the Commission on railway and steamship refrigeration. no.1–date. [1913]–date.

- Walker, Sydney Ferris.** 621.56 W17
Cold storage, heating and ventilating on board ship. 1911. Van Nostrand.
Binder's title reads "Marine cold-storage, heating, ventilating."
The same.....r 621.56 W17
Descriptive treatment of methods and machinery, with attention to the special problems that come up on board ship.
Appeared in "International marine engineering," v.11-13, July 1906-May 1907, Jan.-Nov. 1908.

Pumps and pumping machinery

- Ihering, Albrecht von.** r 621.6 I18a
Die gebläse; bau und berechnung der maschinen zur bewegung, verdichtung und verdünnung der luft. Ed.3. 1913.
Deals with the design and construction of blowing engines for blast-furnaces, Bessemer converters, air-compressors, air-pumps, ventilating fans, etc. Thorough and practical.
- Innes, Charles Herbert.** 621.63 I24a
The fan, including the theory and practice of centrifugal and axial fans; rev. by W. M. Wallace and F. R. Jolley. Ed.2. 1916. Technical Pub. Co.
- Bale, Manfred Powis.** r 621.64 B19
Pumps and pumping; a hand-book for pump users, notes on selection, construction and management. Ed.4. 1901. Lockwood.
- Butler, Edward.** 621.64 B97
Modern pumping and hydraulic machinery as applied to all purposes, with explanation of the theoretical principles involved, construction, working and relative advantages; being a practical handbook for engineers, designers and others. 1913. Griffin.
"Comprehensive and analytical review of the present state of the art of building and operating hydraulic machinery." *Engineering news*, 1913.
- Haeder, Herman.** r 621.64 H13
Pumpen und kompressoren; handbuch für berechnung, entwurf, bau, betrieb, untersuchung und verbesserung von pumpen- und luft-kompressoranlagen. Ed.3, rev. v.2. 1915.
- [Hawkins, Nehemiah.]** 621.64 H36
Pumps and hydraulics, by William Rogers [pseud.]. 2v. 1905. Audel.
Practical work, dealing with all classes of hand and power pumps. Largely a description of commercial types.
- Wakeman, William Henry.** 621.64 W14
Questions and answers on pumps and pumping machinery. 1912. Branch.
Devoted mainly to practical problems of operation likely to arise in the steam power plant.
- Daugherty, Robert Long.** 621.67 D28
Centrifugal pumps. 1915. McGraw.
Based on performance of a large number of turbine and volute centrifugal pumps. Treats design very briefly, and is concerned mainly with nature and characteristics, comparison of various types, efficiency, selection and application.

De Laval, Carl George.

621.67 D39

Centrifugal pumping machinery; the theory and practice of centrifugal and turbine pumps. 1912. McGraw.

Principles governing actual design of centrifugal pumps. Describes and freely illustrates specific installations.

Ivens, Edmund Masters.

621.691 I33

Pumping by compressed air. 1914. Wiley.

First book in English dealing at all fully with the air-lift. Though much of the information is not new, it has been collected from many sources and conveniently arranged.

Industrial plants

Machine-shop work

American machinist.

621.7 A51

Machine shop catechism; consisting of over 1000 carefully selected questions and answers. 1913.

Practical problems, mainly of an elementary nature. Compiled from "American machinist."

Halsey, Frederic Arthur.

621.7 H18

Methods of machine shop work for apprentices and students in technical and trade schools. 1914. McGraw.

"Object... is to show how the problems of the shop are attacked and solved—not to show how machine tools are operated." *Introduction.*

Lutz, R. R.

621.7 L98

The metal trades. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Contents: Foundry and machine shop products. — Automobile manufacturing. — Steel works, rolling mills and related industries.

Brief study of apprenticeship and training, working conditions and opportunities in these industries.

Davies, Francis Henry.

621.715 D31

Foundations and machinery fixing. 1912. Constable.

Compilation of data relating to design, construction and cost of machine foundations and to erection and installation of machines of various types. Information is largely from actual installations, but partly from recommendations of engine builders.

Die-making. Tool-making

621.716 D57

Diemaking practice. 1914. Industrial Press. (Machinery's reference series.)

Contents: General information on diemaking.—Making one-piece armature-disk tools, by D. T. Hamilton.—The multiple plunger press and its tools, by Charles Doescher.—Sub-press die construction, by Roy Plaisted and F. K. Hudson.

621.716 D79

Drawing, forming and bending dies. 1914. Industrial Press. (Machinery's reference series, no. 126.)

Contents: Drawing and forming dies.—Examples of drawing, bending and forming dies.

Lucas, Chester L. & Johnson, J. W.

621.716 L969

Drop-forging dies and die-sinking. 1913. Industrial Press. (Machinery's reference series.)

Brief, practical treatment.

Colvin, Fred Herbert, & Haas, L. L. 621.7162 C72

Jigs and fixtures; a reference book showing many types of jigs and fixtures in actual use, and suggestions for various cases. 1913. McGraw.

Explains fundamental principles of jig design and manufacture, "as nearly in the order of their application as possible, so that the designer can select such parts and methods as seem best suited to his particular problem." *Preface.*

621.7163 P89

Precision, locating and dividing methods. 1914. Industrial Press.
(Machinery's reference series.)

Approved methods and appliances used by tool makers in locating holes or finished surfaces to given dimensions within the required limits of accuracy.

Foundry practice

Alexander, Magnus Washington. 621.72 A37

Safety in the foundry. [1915.] National Founders' Assoc.

Based on investigations conducted by the Committee on safety and sanitation of the National Founders' Association.

American Foundrymen's Association. qr 621.72 A51t

Transactions, 1905, 1907, 1909, 1911-16. v.14, 16, 18, 20-25. [1906]-17.

Contains Proceedings of the annual convention for 1905, 1907, 1909, 1911-13 and a summary of Proceedings for 1914-16.

Many numbers of v.18, 1909, are wanting.

Buchanan, John Findlay, comp. r 621.72 B84

The moulder's dictionary (foundry nomenclature); a concise guide to the facts, phrases and terms relating to foundry practice and foundry-ology, with notes on materials, appliances, etc. 1912. Spon.

Neither the phraseology nor the accompanying technical notes are up to date.

Duponchelle, J. r 621.72 D93

Manuel pratique de fonderie; cuivre, bronze, aluminium, alliages divers. 1914.

qr 621.72 H23

Handbuch der eisen- und stahlgiesserei; hrsg. von C. Geiger. v.1-2. 1911-16.

v.1. Grundlagen.

v.2. Betriebstechnik.

Contains many bibliographies.

v.1 gives a comprehensive survey of the materials that enter into iron and steel foundry processes, their properties and tests.

Morgan, John James. 621.72 M89

Notes on foundry practice. 1912. Griffin.

Concise manual of materials and methods, with special attention to iron foundries. Gives many analyses.

Osann, Bernhard. r 621.72 O29

Lehrbuch der eisen- und stahlgiesserei, für den gebrauch beim unter-richt, beim selbststudium und in der praxis. Ed.2, enl. 1913.

Comprehensive work, discussing both principles and practice.

Palmer, Reginald Heber. 621.72 P19

Foundry practice; a text book for molders, students and apprentices. 1912. Wiley.

Clear, direct and well arranged, and in accordance with current practice.

Sexton, Alexander Humboldt, & Primrose, J. S. G. 621.72 S51
Principles of ironfounding (and foundry metallography). 1911.
Technical Pub. Co.

Does not neglect foundry practice and description of foundry equipment, but is concerned mainly with foundry metallurgy and the scientific principles underlying the various operations.

Wangelin, Walter Hugo Douglas. 621.72 W19
Foundrymen's primer; a treatise on the chemical constituents of iron and methods of calculating the mixtures of iron by analysis. 1905.
[Privately printed.]

Very brief and non-technical. Object of book is to show that the analysis of an iron is the only true index to its quality.

West, Thomas Dyson. 621.72 W56a
Moulders' text-book. Ed.9, enl. v.2. 1909. Wiley.
Being v.2 of his "American foundry practice."
An assemblage of good articles full of practical hints, rather than a complete manual. Better for practice than for theory.

Treiber, Emil. 621.724 T71
Foundry machinery; tr. and revised from the German and adapted to British practice by Charles Salter. 1913. Scott. (Broadway series of engineering handbooks.)
Chiefly a discussion of molding machinery.

Forging

Hamilton, Douglas Thomas. 621.736 H19
Machine forging. 1914. Industrial Press. (Machinery's reference series.)
Contents: Machine forging dies and methods.—Welding in the forging machine.
Reprinted from "Machinery."
Brief. Describes and illustrates machines, tools and methods used in typical operations.

Saunders, Benjamin. 621.736 S25
Forging, stamping and general smithing; a reference book for foremen smiths, managers and engineers. 1912. Spon.
Practical work on British forge practice. Gives dimensioned drawings, brief notes on methods, actual time of manufacture and finished weights of over 600 mild steel forgings and stampings.

Pattern-making

Barrows, Frank Wilson. 621.744 B26a
Practical pattern making. Ed.2, rev. & enl. 1913. Henley.
Discusses and illustrates the leading operations and describes in detail methods for making a number of representative patterns.

Resides, George Henry, & Diemer, Hugo. 621.744 R35
Wood-turning, wood-working machines and pattern making; a text for university, college and technical high school shops and for apprenticeship courses. 1911. McGraw.
Based on shop work at Pennsylvania State College.

Metallurgical works

Nagel, Oskar.

621.76 N12

Lay-out, design and construction of chemical and metallurgical plants; detailed descriptions and illustrations of actual layouts and constructions of acid, alkali, fertilizer, brick, cement, gas, coke and other plants, of spelter and copper works, gold and silver mills, etc., a handbook for engineers, chemists, metallurgists, manufacturers, superintendents and students. 1911. Privately printed.

Compilation of considerable value to chemical and metallurgical engineers and manufacturers. Limited to consideration of existing plants.

Jones, Edward Horton.

621.762 J39

Unit construction costs from the new smelter of the Arizona Copper Co. 1914. McGraw.

Binder's title reads "Smelter construction costs."

Reprinted from "Bulletin of the American Institute of Mining Engineers," July 1914.

Gives detailed costs in construction of a new plant.

Purves, Alex.

621.762 P98

Brass-moulder illustrated; a practical guide for the apprentice and young journeyman. 1915. Spon.

Elementary guide to British practice in core making and in green-sand, dry-sand, and loam molding. Has chapter on clay, gelatine and wax modeling.

Pipes and tubes

Bridgeport Brass Company, Bridgeport, Conn.

r 621.774 B74

Handbook for architects, engineers and superintendents, with conveniently arranged tables and prices for seamless brass and copper tubing. 1913.

Trade literature dealing with manufacture and properties of "Bridgeport" tubing.

Engineering Standards Committee.

qr 621.774 E64bs

British standard specification for cast iron spigot and socket soil pipes. 1912: (British standard sections no.58.)

Engineering Standards Committee.

qr 621.774 E64bw

British standard specification for cast iron spigot and socket waste and ventilating pipes for other than soil purposes. 1912. (British standard sections no.59.)

Engineering Standards Committee.

qr 621.774 E64bc

British standard specification for copper-alloy three-piece unions for low and medium pressure British standard screwed copper tubes (primarily for domestic and similar work). 1914. (British standard sections no.66.)

Kröhnke, O.

r 621.774 K42

Über die neuzeitigen eisenrohrmaterialien; ein beitrag zur kenntnis ihres gefügebraufbaues. 1912.

Chemical and metallographical investigation of the properties of cast-iron and low-carbon steel. Value is largely in the numerous photomicrographs of sections, welds, etc.

National Tube Company, Pittsburgh.

r 621.774 N15b

Book of standards; containing tables and useful information pertaining to tubular goods as manufactured by National Tube Company, Pittsburgh, Pa. 1913. Pittsburgh.

Valuable technical information on manufacture and properties of pipes and tubes, and on properties and behavior of air, gases, steam and water.

Sharp, John.

621.774 S53

Some considerations regarding cast iron & steel pipes. 1914. Longmans.

Discusses physical and chemical properties of cast-iron, wrought-iron and steel, flow of water, and mechanical properties and testing of pipes. Deals at length with causes and prevention of corrosion.

qr 621.77405 R62

Die Röhren-industrie (Der Metallröhren-industrie 4.-7. jahrgang); fachzeitschrift für die herstellung, bearbeitung und verwendung von röhren aller art [semimonthly], Oct. 1910-July 1914. v.4-7. 1910-14.

Replaced by "Die Metallbörse."

Engineering Standards Committee.

qr 621.7744 E64

British standard specification for copper tubes and their screw threads (primarily for domestic and similar work). 1913. (British standard sections no.61.)

Power transmission. Gears

Kerr, Eugene Wycliffe.

621.8 K21a2

Power and power transmission. Ed.3, rev. 1914. Wiley.

Contents: Machinery and mechanics.—Steam power-pumps, gas-engines, water-power, compressed air, etc.

"Author does not...presume to have presented much that is new but rather a collection of such principles and information as would direct the beginner along the proper course of study." *Preface.*

Cathcart, William Ledyard.

621.812 C28

Theory of shrinkage and forced fits, with tabulated data and examples from practice. 1912. Industrial Press. (Machinery's reference series, no.89.)

Pamphlet. Devotes only a few pages to practical considerations, but employs elementary mathematics for most of the calculations.

Fellows Gear Shaper Co. Springfield, Vt.

r 621.83 F34

Treatise on commercial gear cutting; spur gears, internal gears. 1914.

With this are bound its "Involute gear" and "Stub-tooth gear."

Grant, George B.

621.83 G78

Treatise on gear wheels. Ed.10. 1907. Grant Gear Works.

Practical treatise on the theory and practice of gear-wheels. The mathematical treatment is made as simple as is consistent with accuracy.

Horner, Joseph Gregory.

621.83 H81g

Gear cutting in theory and practice. 1914. Emmott. ("Mechanical world" series.)

Discusses theory, materials, methods and machines. Largely descriptive. Useful book in spite of some inexactness in terminology.

Horner, Joseph Gregory.

621.83 H81

Toothed gearing; a practical handbook for offices and workshops. Ed.2. 1904. Lockwood.

Chiefly from the draftsman's standpoint. As little mathematics as possible is used.

Robinson, Stillman Williams.

621.83 R55

Practical treatise on the teeth of wheels, with the theory and the use of Robinson's odontograph. Ed.3, rev. 1906. Van Nostrand.

Brief manual discussing the proper curves and the most suitable methods for producing them.

White, George Thomas.

621.83 W63

Toothed gearing. 1912. Scott. (Broadway series of engineering handbooks, v.4.)

Small book giving essentials clearly.

621.832 S77

Spur and bevel gearing; a treatise on the principles, dimensions, calculation, design and strength of spur and bevel gearing, together with chapters on special tooth forms and methods of cutting gear teeth [comp. and ed. by Erik Oberg]. 1914. Industrial Press.

Compiled chiefly from articles published in "Machinery."

Treats the subject in detail and largely in a practical way. Written in part by Ralph E. Flanders and includes part of the material in his "Gear-cutting machinery," 1909. Illustrated by line drawings, which are preferable to the numerous half-tones of the earlier work.

621.8323 S759

Spiral and worm gearing; a treatise on the principles, dimensions, calculation and design of spiral and worm gearing, together with chapters on the methods of cutting the teeth in these types of gears [comp. and ed. by Erik Oberg]. 1914. Industrial Press.

Compiled chiefly from material published in "Machinery."

Practical work, avoiding purely theoretical discussion except where essential in explanation of practical processes.

Thomas, Hugh Kerr.

621.8323 T37

Worm gearing. 1913. McGraw.

"Complete analysis of the principles of the design of worm gearing...primarily... treated in its application to the rear axles of automobiles." *Preface.*

621.835 D46

Designing and cutting cams. Ed.3, rev. & enl. 1911. Industrial Press. (Machinery's reference series.)

Contents: The drafting of cams, by Louis Rouillion.—Cam curves, by A. B. Babbitt and F. H. Sibley.—Notes on cam design and cam cutting, by J. L. Dinnany.—Cutting master cams, by H. C. Barnes.—Suggestions in cam making.

Revised and republished from "Machinery."

r 621.85 L51

Ledertreibriemen; ihre fabrikation, prüfung und behandlung. 1911.

"Benutzte quellen," p.5.

Construction, application, operation and repair of leather belts.

Cling-surface Company, Buffalo.

r 621.852 C59

The belt book; a treatise on the scientific care of transmission belts and ropes for service and profit; completely rewritten by A. E. Michel. Ed.5. 1914.

Trade literature advocating slack-belt drive.

Hart, Thomas, *pub.*

r 621.853 H31

Rope driving; or, The transmission of power by ropes.

Contents: Rope driving, the system.—Designing a rope drive.—Angular driving.—Points in connection with the working of rope drives.—The driving rope.—Splicing instructions.

Illustrates and describes system of the publisher, but also has valuable general data.

Stahl, Albert W.

r 621.853 S78

Transmission of power by wire ropes. Ed.2, rev. 1893. Van Nostrand. (Van Nostrand science series.)

Hoisting and conveying machinery

Bethmann, Hugo.

r 621.86 B46

Die hebezeuge; berechnung und konstruktion der elemente, flaschenzüge, winden und krane, für schule und praxis. Ed.3, rev. 1915.

Technical work on design, with discussion of the more important applications.

Hanffstengel, Georg von.

r 621.86 H23a

Die förderung von massengütern. Ed.2, enl. 2v. 1913-15.

v.1. Bau und berechnung der stetig arbeitenden förderer.

v.2. Förderer für einzellasten.

"Verzeichnis vorhandener literatur," v.1, p.289; v.2, p.264.

Condensed descriptive treatise on conveyors, cranes and other devices for mechanical handling of material in bulk. Many diagrams.

Hess, Howard Drysdale.

621.86 H48

Machine design; hoists, derricks, cranes. 1912. Lippincott.

Indicates thorough knowledge of crane design, but is not primarily for the specialist. Valuable rather to the student of advanced machine design, the practical designer and the manufacturer. Takes up principles of the various types of cranes, hoists, derricks and winches and of auxiliary equipment. Follows current (1912) American practice.

Jallings, John H.

621.87 J15

Elevators; a practical treatise on the development and design of hand, belt, steam, hydraulic and electric elevators. 1915. Amer. Technical Soc.

Mainly description of construction, considering old types, many of which are still in service, as well as modern types.

Broughton, H. H.

621.8733 B78

Complete manual on lifting and hauling machinery. v.1. 1911. "The Electrician" Printing and Pub. Co. (Electrician series.)

v.1. Electric cranes; their design, construction and application.

Comprehensive and valuable treatment of British practice in electric crane construction. Gives particular attention to mechanical features of different types of cranes.

Machine-tools

621.89 C95

Cutting lubricants. 1914. Industrial Press. (Machinery's reference series, no.124.)

Contents: Cutting lubricants for machining operations.—Lubricating systems for cutting tools.

Leonard, William Samuel.

621.9 L62

Machine-shop tools and methods. Ed.6, rev. & enl. 1913. Wiley.

Describes clearly the hand and machine tools used and methods of using them.

- Roe, Joseph Wickham.** 621.909 R59
 English and American tool builders. 1916. Yale University Press.
 "A partial bibliography on tool building," p.295-297.
 "The history of English and American tool building...covers substantially the entire history of the art." *Preface*.
 Deals with the lives of important men, and even more fully with the various factories, prominent in the development of the machine-tool industry. The first book to give an extended account of the industry in America.
- Cincinnati Planer Company, Cincinnati, Ohio.** r 621.911 C48
 History of the planer. 1916.
 Very brief notes on development, with illustrations showing some early types.
- Cincinnati Planer Company, Cincinnati, Ohio.** 621.912 C48
 Treatise on planers; practical information and suggestions for economically producing flat surfaces. 1912.
 Clear explanation of construction and methods of operation of planers for metal.

Grinding and abrasive machinery

- Colvin, Fred Herbert, & Stanley, F. A.** 621.92 C72
 American machinist grinding book; modern machines and appliances, methods and results. 1912. McGraw.
 The requirements of engineering work and the high development of commercial abrasives have combined to cause rapid progress in the field of grinding machinery. Present work is largely compilation. Covers modern practice in efficient construction and safe operation of equipment for grinding, buffing and polishing.
- Guest, James J.** 621.92 G95
 Grinding machinery. 1915. Arnold.
 Valuable work on precision grinding. Much of the material is original, and it is presented concisely. Theory is ably treated. Many examples of mechanism and methods are from American practice.
- Hänig, A.** 621.92 H23
 Emery and the emery industry; a technical study of modern abrasives and the development of the modern grinding-machine industry; tr. from the German by Charles Salter. 1912. Scott.
 "Literary sources consulted," p.100.
 Discusses natural and artificial abrasives, the manufacture of emery and grinding discs and different types of grinding machines for various purposes.
- Pike Manufacturing Company, Pike, N. H.** qr 621.921 P58
 Sharpening stones; history and development. 1915.
 Illustrated pamphlet describing preparation of natural and artificial whetstones. Contains "Glossary of abrasive terms."

Saws

- Disston (Henry) & Sons, Philadelphia.** qr 621.931 D63
 Why a saw cuts, by F. M. Bassler. 1916.
- Disston (Henry) & Sons, Philadelphia.** r 621.93109 D63
 The saw in history; a comprehensive description of the development of this most useful of tools from the earliest times down to the present day. 1915.

Lathes. Milling-machines

Dinaro, Salvatore.

621.94 D59

Guida pratica del tornitore meccanico; ovvero, Sistema unico per la costruzione di viti ingranaggi e ruote elicoidali. Ed.6, rev. & enl. 1914.

Dowd, Albert Atkins.

621.94 D76

Machining tapered and spherical surfaces. 1914. Industrial Press. (Machinery's reference series, no.121.)

Considers tapered, convex, and concave surfaces, giving practical information on methods and devices.

Flanders, Ralph Edward.

r 621.94 F61

Fay automatic lathe; a machine for the automatic turning of work held on centers or on centered arbors. 1913. Jones & Lamson Machine Co.

Hartness, James.

r 621.94 H33h

Hartness flat turret lathe manual; a hand book for operators, 1914. 1914. Jones & Lamson Machine Co.

Jones, Franklin Day.

621.94 J39

Turning and boring; a specialized treatise for machinists, students in industrial and engineering schools and apprentices on turning and boring methods, including modern practice with engine lathes, turret lathes, vertical and horizontal boring machines. 1914. Industrial Press.

Deals with practical operation rather than construction of machines. Discusses standard practice and many special processes.

Perrigo, Charles Oscar Eugene.

621.94 P44m2

Lathe design, construction and operation, with practical examples of lathe work; a complete practical work on the lathe. Rev. & enl. ed. 1916. Henley.

"Aim...has been to present in as comprehensive a manner as may be within the limits of a single volume the history and development of the lathe...to briefly discuss its effects upon manufacturing interests; to describe its practical use in various classes of work and to compare in a representative, theoretical and practical manner the modern American lathes as now built (1916)." *Preface.*

Brown & Sharpe Manufacturing Co.

621.943 B78p

Practical treatise on milling and milling machines. 1914.

"It is our purpose...to present, in as non-technical a manner as possible, information that will assist the beginner and practical man to a better understanding of the care and various uses of modern milling machines of the column and knee and manufacturing types." *Preface.*

Written with reference to use of Brown & Sharpe machines, but contains much valuable general information.

Rolling

Balsamo, M.

621.944 B21

Laminazione del ferro e dell' acciaio. 1910.

Brief consideration of roll design and the principles and practice of rolling.

Holverscheid, A.

621.944 H75

Die walzwerke, einrichtung und betrieb. 1912.

"Literatur," p.4.

Small but comprehensive book on the machinery and operations of rolling-mills. Mainly descriptive.

Kindl, Frederick Henry.

621.944 K26

Rolling mill industry; a condensed general description of iron and steel rolling mills and their products. 1913. Penton.

Brief discussion of history and classification of rolling-mills, with non-technical description of the more important products. Contains statistics.

Broaching. Extrusion. Screws

621.951 B75

Broaching. 1914. Industrial Press. (Machinery's reference series.)

Contents: The broaching process, broaching machines; Broaches and broach making, by F. D. Jones.—Examples of broaching practice, by D. T. Hamilton and C. L. Lucas.

Methods of cutting or finishing holes of various cross-sections other than round, which cannot be machined by revolving tools.

621.9833 E98

Extrusion of metals. 1913. Industrial Press. (Machinery's reference series, no.110.)

Contents: The extrusion process, by E. F. Lake.—Extrusion of shells and tubes, by C. L. Lucas.—Making collapsible tubes, by C. L. Lucas.

Describes methods of producing continuous bars of any desired cross-section by forcing more or less plastic metals or alloys through forms or dies.

Engineering Standards Committee.

qr 621.99 E64b

British standard specification for steel fishbolts and nuts for railway rails. 1913. (British standard sections no.64.)

Engineering Standards Committee.

qr 621.99 E64r

Report on British standard heads for small screws. 1911. (British standard sections no.57.)

With this is bound "British standard definitions of yield point and elastic limit."

622 Mining engineering

Bibliography

Crane, Walter Richard, comp.

r 016.622 C86

Index of mining engineering literature; comprising an index of mining, metallurgical, civil, mechanical, electrical and chemical engineering subjects as related to mining engineering, also costs of mining and metallurgical operations, etc. v.2. 1912. Wiley.

For v.1 see preceding catalogue, v.6.

r 016.622 M72

Mining world index of current literature; an international bibliography of mining and the mining sciences, 1912–date. v.1–date. 1912–date.

Compiled and revised semiannually from the index of the world's current literature appearing weekly in "Mining and engineering world."

United States—Mines bureau.

r 016.622 U25

Publications, Dec. 1915, May, Nov. 1916. [1915–16.]

General works

Bailes, George Mitcheson, ed.

qr 622 B15

Modern mining practice; a practical work of reference on mining engineering. 5v. [1906?] Bennett.

"Bibliography" at the end of each volume.

Engineering and mining journal.

622 E64

Handbook of mining details; comp. from the Engineering and mining journal by the editorial staff. 1912. McGraw.

Selected articles from "Engineering and mining journal," Aug. 7, 1909 to July 1, 1912.

"Simply a handbook that is a more or less random collection of useful information ... No special attempt to round out any subject has been made, yet it will be found that some subjects are fully treated." *Preface.*

Hoskin, Arthur Joseph.

622 H82

The business of mining; a brief, non-technical exposition of the principles involved in the profitable operation of mines. 1912. Lippincott.

Considers mining as a business, defining and explaining its field of operation and its limits. Considerable attention to its financial aspects. No attempt to discuss technical or engineering features.

Ketchum, Milo Smith.

622 K22

Design of mine structures. 1912. McGraw.

The same.....r 622 K22

Deals with head-frames, buildings, bins, coal-washers and breakers. While complete in itself, the book to some extent supplements author's "Design of steel mill buildings" and "Design of walls, bins and grain elevators."

[Leifchild, John R.]

r 622 L55

Cornwall; its mines and miners, with sketches of scenery, designed as a popular introduction to metallic mines. 1855. Longman. (Traveler's library.)

Minnesota University—School of mines experiment station.

r 622 M72

Bulletin. no.1-4. 1912-15.

For contents see Contents book kept at the reference desk.

O'Donahue, Thomas Aloysius.

r 622 O14

Mining formulæ and their application, for students, colliery managers and mining engineers. 1907. "C. M. A." Office.

Young, George Joseph.

622 Y37

Elements of mining. 1916. McGraw.

"Bibliography" at the end of each chapter.

Without considering practice in any particular kind of mine, author sets forth concisely the principles which apply in both coal and metal mining.

Mining law**Bainbridge, William, d. 1869.**

qr 622.007 B16

Law of mines and minerals, with an appendix of mining precedents, fully annotated with references to the text and a glossary of English mining terms. Ed.5, by Archibald Brown. 1900. Butterworth.

Emery, George Davis.

r 622.007 E58

Miners manual; a hand-book of the law of mines and mining. 1906. [Herald Pub. Co.]

Lindley, Curtis Holbrook.

r 622.007 L72a

Treatise on the American law relating to mines and mineral lands within the public land states and territories, and governing the acquisition and enjoyment of mining rights in lands of the public domain. Ed.3. 3v. 1914. Bancroft.

MacFarren, H. W.

r 622.007 M15

Mining law for the prospector, miner and engineer. 1911. Mining and Scientific Press.

Brief, practical guide to mining laws of the United States. For the man in the field rather than the mining attorney.

MacSwinney, Robert Forster.

qr 622.007 M22

Law of mines, quarries and minerals [written with the assistance of] L. S. Bristowe. Ed.2. 1897. Sweet.

Ricketts, Alfred Herbert.

r 622.007 R43

Manual of American mining law. 1911. Scientific Book Pub. Co.

"Exceedingly concise in its treatment of the subject, and might almost be called a dictionary of citations." *Mining and scientific press*, 1911.

Roderick, James E.

r 622.007 R58

Anthracite mine code of Pennsylvania; remarks in support of the majority report of the Commission appointed to revise the anthracite mine laws, Harrisburg, April 1, 1913. 1913.

Pamphlet.

Shamel, Charles Harmonas.

r 622.007 S52

Mining, mineral and geological law; a treatise on the law of the United States involving geology, mineralogy and allied sciences as applied in mining, real estate, public land, United States customs and other litigation, also the acquisition and maintenance of mining rights in the public domain and obtaining patents for mineral land under the United States mining laws. 1907. Hill Pub. Co.

"Bibliography," p.551-570.

Snyder, Wilson Isaac.

r 622.007 S67

Mines and mining; a commentary on the law of mines and mining rights, both common law and statutory, with appendices containing the Federal statute and the statutes of the Western states and territories relating to mining for precious metals on the public domain and forms for use in application for patent and adverse suits. 2v. 1902. Flood.

United States—General land office.

r 622.007 U25a3

United States mining laws and regulations thereunder, approved Aug. 6, 1915. 1915.

Wade, William Pratt, ed.

r 622.007 W11

Manual of American mining law as practiced in the Western states and territories, embracing a compilation of the text of the United States statutes, land-office regulations and decisions and the local statutes of California, Colorado, Nevada, Dakota, Washington, Wyoming, New Mexico and Arizona. 1889. Thomas Law Book Co.

White, Edward Joseph.

r 622.007 W63

Law of mines and mining injuries. 1903. Thomas Law Book Co.

Mining reports

Bibliography

Canada—Mines branch. (Department of mines.) **qr 016.622009 C16**

Catalogue of publications (1907–1911), containing tables of contents of the various technical reports, monographs, bulletins, etc., together with a list of magnetometric survey maps, working plans, etc., including also a digest of technical memoirs and the annual summary reports of the superintendent of mines issued by the Department of the interior, 1902–06. 1912.

Special localities

Arizona—Mines bureau. **r 622.009 A71**

Bulletin. no.2–date. 1915–date.

No.15 wanting.

Calumet & Arizona Mining Company. **r 622.009 C13**

Report of directors, 1905–16.

Canada—Mines branch. (Department of mines.) **r 622.009 C1672p**

Production of copper, gold, lead, nickel, silver, zinc and other metals in Canada during 1912, by C. T. Cartwright. 1913.

Canada—Mines branch. (Department of mines.) **r 622.009 C1672**

Summary report, April 1912–Dec. 1916. 1913–17.

For reports for 1907–11 see preceding catalogue, v.6.

Colorado—Mines bureau. **r 622.009 C72b**

Bulletin. no.1–6. 1896–[1906?]

England—Mines, Chief inspector of. **qr 622.009 E64**

Mines and quarries; general report with statistics for 1910, pt.3–1912, 1913, pt.1–3, 1914, pt.1–3. 1911–15.

Contents: District statistics.—Labour.—Output.—Colonial and foreign statistics.

For reports for 1908–09, 1910, pt.1–2 see preceding catalogue, v.6.

Illinois—Coal mining investigations. (Co-operative **r 622.009 I22b**
agreement.)

Bulletin. no.1–15. 1913–16.

Beginning with no.4, May 1914, issued bimonthly.

The direction of this investigation is vested in the director of the United States bureau of mines, the director of the State geological survey and the head of the Department of mining engineering, University of Illinois.

Illinois—Geological survey. **r 622.009 I22**

Circular. no.8. [1914.]

For no. 1–5 see preceding catalogue, v.6.

Iowa—Mine inspectors. **r 622.009 I25**

Biennial report (16th–[18th]), 1910/12–1915. 1912–16.

For earlier reports see preceding catalogue, v.1, 6.

Mabson, Richard Rous. **r 622.009 M11**

Statist's mines of the Transvaal, 1906–07. [1906–07.]

Investor's handbook, giving information as to the financial condition of the different companies.

For volume for 1900 see preceding catalogue, v.1.

- Michigan**—Mineral statistics, Commissioner of. r 622.009 M66
 Annual report, 1887-88. 1888-89.
 For earlier and later volumes see preceding catalogue, v.1.
- Montana**—Coal mines inspector. r 622.009 M849
 Biennial report, 1911-12. [1912.]
 Beginning with 1913 the report of the Coal mines inspector will be found in Biennial report of Montana labor and industry department (r 331 M84).
 For report for 1904-10 see preceding catalogue, v.6.
- Montana**—Mines inspector. -r 622.009 M84
 Biennial report (19th), 1910/12.
 Beginning with 1913 the report of the Mines inspector will be found in Biennial report of Montana labor and industry department (r 331 M84).
 For earlier reports see preceding catalogue, v.4. 6.
- Newland, David Hale.** qr 507 N26
 Mining and quarry industry of New York state; report of operations and production during 1904-date. 1904-date. (In New York (state)—Museum. Annual report, 1904-date.)
- United States**—Mines bureau. r 622.009 U25a
 Annual report (1st-6th), for the fiscal year ended June 30, 1911-16. 1912-17.
- United States**—Mines bureau. r 622.009 U25r
 Report of the mine inspector for the territory of Alaska to the secretary of the interior for the fiscal year ended June 30, 1912-14. 1913-14.

Directories

- Canadian** mining manual, 1914; a handbook of information concerning the mineral resources and the mining industry of Canada. [1914.] r 622.02 C16
qr 622.02 I248
- International** mining manual, embracing the principal operating metal mines, mills, smelting & refining plants of the United States, Canada and Mexico and coal mines of the Western states, 1914. v.22. Western Mining Directory Co.

Periodicals. Societies

- Annales des mines**; table, v.200-219. 1902-11. r 622.05 A61
 For indexes for v.1-199 and for volumes of magazine see preceding catalogue, v.1, 6.
- Canadian Mining Institute.** r 622.05 C167
 Transactions; general index, with summaries of papers, v.1-10, 1898-1907.
 v.7-14, 1904-11, title reads "Journal."
 For volumes of transactions see preceding catalogue, v.4.
- Instituto Mexicano de Minas y Metalurgia.** r 622.05 I247
 Informes y memorias, 1912/13. v.3, no.1-2. [1912.]
 For v.1, v.2, no.2-6 see preceding catalogue, v.6.
- Maine** mining journal [weekly], Jan. 16, 1880-Dec. 30, 1881. v.1-4, in 2. [1880-81.] qr 622.05 M26

qr 622.05 M64

Metall und erz; zeitschrift für metallhüttenwesen und erzbergbau einschl. aufbereitung; neue folge der Metallurgie; neue folge der zeitschrift Der Erzbergbau [semimonthly], Oct. 1912–date. v.1–date. 1912–date.

v.1–date is also called v.10–date, continuing the numbering of "Metallurgie."

Mining and Metallurgical Society of America. r 622.05 M7267

Bulletin, 1911–date. no.31–date. 1911–date.

Missouri University—School of mines and metallurgy. r 622.05 M74b

Bulletin; technical series, Nov. 1911–May 1916. v.1–2. 1911–16.

American Mining Congress. qr 622.06 A512p

[Preliminary bulletin of the Chicago meeting, Oct. 24–28, 1911. 1911.]

American Mining Congress. qr 622.06 A512

Program of the 11th annual session, Carnegie hall, North side, Pittsburgh, Penna., Dec. 2–5, 1908. Pittsburgh.

Pocket-books

r 622.08 C62a

Coal miners' pocketbook; principles, rules, formulas and tables. Ed.11, rev. & enl. 1916. McGraw.

Hatch, Frederick Henry, & Valentine, E. J. r 622.08 H34

Mining tables; a comparison of the units of weight, measure, currency, mining area, etc. of different countries, with tables, constants & other data useful to mining engineers and surveyors. 1907. Macmillan.

History

Freise, F. r 622.09 F91

Geschichte der bergbau- und hüttentechnik. v.1. 1908.

v.1. Das altertum.

Comprehensive. Comparable in thoroughness to Beck's "Geschichte des eisens."

Mannix, John Bernard. 622.09 M33

Mines and their story. 1913. Lippincott.

Popular work on development and present practice in mining of gold, diamonds, silver, coal and iron. Entertaining in style but not always strictly accurate.

Mine valuation

Burdick, Arthur Jerome. 622.1 B89

Prospectors' manual. Rev. ed. 1912. Way's Pocket Smelter Co.

A guide in popular form, but carelessly done and containing many errors.

Burnham, Mather Howard. 622.12 B93

Modern mine valuation. 1912. Griffin.

Mathematical discussion of the fundamental theory of mine valuation and sampling.

Skinner, Edmond Norton, & Plate, H. R. r 622.12 S62

Mining costs of the world; a compilation of cost and other important data on the world's principal mines. 1915. McGraw.

Compilation mainly from annual reports and financial statements of mining companies. "Covers about three hundred and twenty-five metal mines." Preface.

Uglow, William Lawrence.

622.12 U17

Study of methods of mine valuation and assessment, with special reference to the zinc mines of southwestern Wisconsin. 1914. (Wisconsin—Geological and natural history survey. Bulletin no.41.)

"Bibliography," p.72-73.

The same. (In Wisconsin—Geological and natural history survey. Bulletin no.41.).....r 557.75 W81bu no.41

Herzig, Charles Simon.

622.13 H48

Mine sampling and valuing; a discussion of the methods used in sampling and valuing ore deposits, with especial reference to the work of valuation by the independent engineer. 1914. Mining and Scientific Press.

Contains also a chapter on "Sampling placer deposits," by C. W. Purington.

Concise, elementary work. Discusses the principles, purpose, implements and practical methods of mine sampling, and the much more intricate subjects of ore estimation and mine valuation.

Practical mining. Quarrying

Engineering and mining journal.

622.2 E64

Details of practical mining; comp. from the Engineering and mining journal by the editorial staff. 1916. McGraw.

Appeared in "Engineering and mining journal," v.94-99, July 1912-June 1915.

Forms a continuation of "Handbook of mining details," published in 1912.

Bucyrus Company, South Milwaukee, Wis.

r 622.21 B85

Handbook of steam shovel work; a report by the Construction Service Co. 1911.

Trade literature which should aid in promoting economy in excavation. Gives useful data on costs and estimates, and detailed reports of actual work of Bucyrus shovels under various conditions.

qr 622.21 E98

Excavating engineer; monthly, Oct. 1912-May 1917. v.9-v.13, no.8. 1912-17.

Publication suspended with v.13, no.8, May 1917.

Gillette, Halbert Powers.

r 622.21 G41

Earthwork and its cost. Ed.2. 1912. McGraw.

Contains also a chapter entitled "Ditching and trenching machinery," by E. E. R. Tratman.

Gives in detail the methods and cost of handling earth by wheelbarrows, carts, wagons, scrapers, elevating graders and cars, together with the costs of trenching, pipe laying, hydraulic excavation, dredging, etc. Discussions of cost estimating, of the construction of embankments, and of overhaul calculation, and detail drawings of a small "home-made" dredge are given.

Gillette, Halbert Powers.

622.21 G41r

Handbook of rock excavation; methods and cost. [Enl. ed.] 1916. Clark.

The same. [Enl. ed.] 1916.....r 622.21 G41r

Earlier editions were published under title "Rock excavation."

Treats of the excavating of rock in open cut work, quarries, mines, etc. Includes drilling, blasting, loading and transportation. Gives details of cost of various pieces of work done, with details of surrounding conditions and of methods used.

- Henz, Ludwig.** qr 622.21 H45
Praktische anleitung zum erdbau; umgearbeitet und vermehrt von
Wilhelm Streckert. Ed.3, enl. 2v. 1873.
v.1. Text.
v.2. Atlas.
- Housden, Charles Edward.** 622.21 H83
Rapid earthwork calculation. 1914. Longmans.
Very brief attempt to simplify calculations.
- McDaniel, Allen Boyer.** 622.21 M14
Excavating machinery. 1913. McGraw.
"Bibliography" at the end of many of the chapters.
"Author has endeavored to describe the makes and types of excavators commonly used in all classes of work except marine dredging. He has not attempted to describe or even mention every make of excavator, but every type has been treated in sufficient detail to give a clear idea of its construction and field of work." *Introduction.*
- Burgoyne, Sir John Fox.** r 622.23 B91a
Treatise on the blasting and quarrying of stone for building and other purposes and on the blowing up of bridges. Enl. ed. 1874. Lockwood.
The same. Ed.5. 1862. Weale.....r 622.23 B91
Title reads "Rudimentary treatise on the blasting and quarrying of stone."
- Cosgrove, John Joseph.** 622.23 C83
Rock excavating and blasting. 1913. National Fire Proofing Co. Pittsburgh.
Appeared serially in "Building progress," house organ of the National Fire-Proofing Company.
Treats in considerable detail the handling and use of explosives in tunneling, shaft sinking, quarrying and rock excavation.
- Greenwell, Allan, & Elsdon, J. V.** 622.23 G85
Practical stone quarrying; a manual for managers, inspectors and owners of quarries and for students. 1913. Lockwood.
Best book on the subject (1913). Gives some attention to American quarrying, though dealing mainly with British methods. Attempts to draw the line between quarrying and mining, but gives considerable space to underground workings. Deals with distribution of rocks, rock structure, prospecting, location and development of quarries, blasting, tools and equipment for extraction and transportation of stone, and avoidance of accidents. Does not deal with stone dressing in detail, but has chapter on preparation for market.
- Weiss, Karl, ed.** qr 553.5 W46
Handbuch der steinindustrie, unter mitwirkung von C. Gäbert [und anderen]. 2v. 1915.
v.1. Die nutzbaren gesteinsvorkommen Deutschlands; verwitterung und erhaltung der gesteine.
v.2. Technik der steingewinnung und steinverarbeitung.
Contains bibliographies.
v.2. is a valuable technical treatise on methods of quarrying and working stone, with considerable attention to the explosives employed in blasting.
- Morgans, William.** r 622.231 M89
Manual of mining tools, comprising observations on the materials from and processes by which they are manufactured, their special uses, applications, qualities and efficiency. 1871. Lockwood.
Discussion of hand tools.

- Dana, Richard Turner, & Saunders, W. L.** 622.24 D19
 Rock drilling, with particular reference to open cut excavation and submarine rock removal. 1911. Wiley.
 Data compiled by Construction Service Company.
 Presents results of Ingersoll-Rand company's investigation of the economics of drilling. Time studies of actual work under varying conditions.
- Lane, Alfred Church.** qr 622.05 C1672 no.6
 Diamond drilling at Point Mamainse, Province of Ontario. 1911.
 (In Canada—Mines branch. (Department of mines.) Bulletin no.6.)
- Swindell, John George.** r 622.24 S97
 Rudimentary treatise on well-digging, boring and pump-work; revised by G. R. Burnell. Ed.4, rev. 1860. Weale.
- Redmayne, Richard Augustine Studdert.** 622.25 R27
 The sinking of shafts. 1909. Longmans. (Modern practice in mining, v.2.)
- Lauchli, Eugene.** 622.26 L36
 Tunneling; short and long tunnels of small and large section driven through hard and soft materials. 1915. McGraw.
 Covers various kinds of tunnel work, discussing methods and equipment, and incidental problems, such as tunnel lining and ventilation.
- Prelini, Charles.** 622.26 Pg1
 Tunneling; a practical treatise. Ed.6, rev. & enl. 1912. Van Nostrand.
 Elementary, but comprehensive description of modern methods of tunneling, illustrated with numerous examples. Intended for students.
- Ržih, Franz.** qr 622.26 R99
 Lehrbuch der gesammten tunnelbaukunst. 2v. in 1. 1864-71.
 v.1, p.639-723; v.2, p.1-246, 591-868, wanting.
- Brinsmade, Robert Bruce.** 622.268 B75
 Mining without timber. 1911. McGraw.
 "Articles from which much of the subject-matter of the book was excerpted," p.301-302.
 Does not include hydraulic mining or dredging but is confined to working of mineral veins by methods requiring a minimum of timber. Thoroughly practical, giving examples of American practice in surface mining, stoping and pillar systems. (For European practice see Mayer's "Mining methods in Europe," 622.2 M53.)

Hydraulic mining

- Van Wagenen, Theodore Francis.** 622.32 V21
 Manual of hydraulic mining for the use of the practical miner.
 Ed.4, rev. & enl. 1913. Van Nostrand.
 Simple and elementary in matter and treatment.

Coal mining

- Bulman, Harrison Francis, & Redmayne, R. A. S.** 622.33 B87
 Colliery working and management. Ed.3. 1912. Lockwood.
 Deals very fully with the subjects which come within its scope, but is confined solely to British practice in the actual working of coal veins and the handling of labor. Does not consider mine drainage, haulage, or ventilation.

Cooke, Arthur O.

j 622.33 C77

A visit to a coal mine. [1912.] Frowde. (Oxford industrial readers.)

Binder's series reads "World at work."

The coal-mine visited is in South Wales and the work of the miners, the timbering and ventilation of the mine, the "picking" and washing of the coal, and the making of coke are all described. Illustrated.

Futers, Thomas Campbell.

622.33 F99

Mechanical engineering of collieries. v.3. 1913. Chichester Press.

v.3. Ventilating fans.—Coal-cutting and conveying machinery.—Engineering workshops and stores.—Brickworks.—Ambulance and rescue stations.

Contains bibliographies.

A modern and complete work replacing Mr C. M. Percy's work on the same subject. *Adapted from publishers' note.*

Complete with regard to British practice. Covers modern developments in Germany and America less thoroughly. Useful to the semi-professional man.

For v.1-2 see preceding catalogue, v.6.

qr 622.33 M72

Mining catalog, combined with coal field directory, 1914-16; devised, comp., ed. and pub. annually by Keystone Consolidated Publishing Co. 1914-16. Pittsburgh.

Volumes for 1914-15, title reads "Coal field directory and mining catalogues."

Redmayne, Richard Augustine Studdert.

622.33 R27

Coal; its occurrence, value and methods of boring. 1908. Longmans. (Modern practice in mining, v.1.)

Redmayne, Richard Augustine Studdert.

622.33 R27m

Methods of working coal. 1914. Longmans. (Modern practice in mining, v.3.)

Sanna-Ser, Joseph.

622.33 S22

Guida del minatore. 1914. Economical Printing Co. Pittsburgh.

Brief manual of bituminous coal mining practice.

Utah—Coal mine inspector.

r 622.33 U29

Report for the years 1910/11-1915/16. 1913-[17].

For reports for 1903-1909/10 see preceding catalogue, v.6.

Periodicals

qr 622.3305 C6284

Coal age; devoted to coal mining and coke manufacture; weekly, Oct. 14, 1911-date. v.1-date. [1911]-date.

qr 622.3305 C6282

Coal and coke operator [weekly and monthly], 1905-16. v.1-16, v.20, no.26, v.25. 1905-16. Pittsburgh & Chic.

v.20, no.6-v.24, no.1, April 24, 1913-Jan. 1915, title reads "Coal and coke operator and fuel magazine."

April 24, 1913, this was consolidated with the "Fuel magazine" and assumed the volume of that publication. This explains the break in the volume numbers.

The issue for April 24, 1913 is called v.20, no.26.

v.23-25. (New ser. v.12-14.) 1914-16.

For earlier volumes see preceding catalogue, v.4.

Comité Central des Houillères de France.

qr 622.3305 C73

Publications de la Station d'essais de Liévin, Aug. 1907-Aug. 1913. 1907-13.

Petroleum production

For Chemical technology, see 665.5

- Johnson, Roswell Hill, & Huntley, L. G.** 622.338 J36
Principles of oil and gas production. 1916. Wiley.
Valuable and authoritative work by experienced oil geologists.
- Paine, Paul McClary, & Stroud, B. K.** 622.338 P16
Oil production methods, with a chapter on Accounting systems, by W. F. and W. B. Sampson. 1913. Western Engineering Pub. Co.
Devoted to practical methods and especially to description of drilling rigs and equipment, affording the best treatment available (1914) on these topics.
- [United States—Indian bureau.]** r 622.338 U25
Regulations to govern oil and gas operations on restricted Indian lands in Oklahoma, approved Oct. 20, 1915. 1915.
Prepared in coöperation with the United States bureau of mines.

Metal mining

- Davies, Edward Henry.** r 622.34 D312
Machinery for metalliferous mines; a practical treatise for mining engineers, metallurgists and managers of mines. Ed.2, enl. & rewritten. 1902. Lockwood.
- Longridge, Cecil Clement.** r 622.342 L84
Gold dredging. 1905. Mining journal.
- Davis, Harold Palmer, comp.** r 622.3421 D31
Davis handbook of the Porcupine gold district, with a directory of incorporated companies and a review of mining in northern Ontario, with an analysis of the production and dividends of the Cobalt silver district. 1911. Privately printed.
Aside from the directory, the work deals mainly with discovery and preliminary development of Porcupine and Gowganda, and the industry at Cobalt during 1910.
- MacLean, T. A.** r 622.3421 M19
Lode mining in Yukon; an investigation of quartz deposits in the Klondike division. 1914.
Issued by the Mines branch of the Department of mines of Canada.
- Meredith, Hubert A. comp.** r 622.3425 M63
Tin mining handbook. 1913. Financial Times.
Gives statistical and descriptive information regarding tin-producing regions of the world. Includes directory of tin-mining companies, with officials.

Marble quarrying

- r 622.351 M36
Marble-workers' manual; designed for the use of marble-workers, builders and owners of houses, containing practical information respecting marbles in general, their cutting, working and polishing, veneering of marble, painting upon and coloring of marble, mosaics, composition and use of artificial marble, stuccos, cements, receipts, secrets, etc.; tr. from the French by M. L. Booth, with an appendix concerning American marble. 1865. Baird.

Renwick, William George.

622.351 R35

Marble and marble working; a handbook for architects, sculptors, marble quarry owners and workers and all engaged in the building and decorative industries. 1909. Lockwood.

Descriptive work dealing with sources, quarrying and working. Considerable attention to American methods. Has chapter on artificial substitutes.

Mine ventilation

Beard, James Thom.

622.4 B34m

Mine gases and ventilation; a reference handbook combining theory and practice of coal mining. 1916. Hill.

Reprinted from the "Coal age."

Concise manual, with many problems on mine ventilation.

Burns, Daniel.

622.4 B93

Safety in coal mines; a textbook of fundamental principles for firemen and other workers in mines. 1912. Blackie.

British book, dealing with safety only with regard to mine gases and safety-lamps. Material intended for instructors is interspersed with that written for practical mining men, though for convenience of readers the more technical paragraphs are indicated.

Fairley, William, & André, G. G.

r 622.4 F16

Ventilation of coal mines. 1889. Van Nostrand. (Van Nostrand science series.)

Moore, Ralph.

r 622.4 M87

Ventilation of mines. 1859. Ogle.

Walsh, Joseph James.

622.4 W18

Mining and mine ventilation; a practical handbook on the physics and chemistry of mining and mine ventilation, for vocational schools and for those qualifying for mine foreman and mine inspector certificates. 1915. Van Nostrand.

Elementary text-book with numerous problems. By an anthracite mine inspector.

Western Australia—Royal commission on the

qr 622.4 W56

ventilation and sanitation of mines.

Report, together with appendices and minutes of evidence. 1905.

Bibliography, p.219-222.

Exhaustive study of conditions, consideration of effects on health of miners, and suggestions for remedial measures.

With this is bound "Report on investigations into the composition of gases caused by blasting in mines."

Atkinson, J. J.

r 622.41 A87

Practical treatise on friction of air in mines. Ed.2. 1889. Van Nostrand. (Van Nostrand science series.)

Atkinson, J. J.

r 622.41 A87p

Practical treatise on the gases met with in coal mines. Ed.3, rev. & enl. 1886. Van Nostrand. (Van Nostrand science series.)

Contains also "Action of coal dusts," by E. H. Williams.

Glaister, John, & Logan, D. D.

r 622.41 G45

Gas poisoning in mining and other industries. 1914. Livingstone.

"Bibliography," p.437-448.

Compilation reviewing the literature of the subject. Discusses causes and effects of gas poisoning, with considerable attention to metallurgical industries.

Victoria—Mine ventilation bonus board. qr 622.41 V312
Progress [and final] report, 1899-1900. [1899-1900.]

Victoria—Noxious fumes board. qr 622.41 V31
Report, 1885. [1885.]

Concerned mainly with deleterious effects of nitroglycerine fumes and of compressed air in mines.

Hoisting

Volk, Carl. r 622.6 V37

Haulage and winding appliances used in mines; based on the works of J. von Hauer; tr. from the German by Charles Salter. 1903. Scott.

McCulloch, George, & Futers, T. C. 622.67 M14

Winding engines and winding appliances; their design and economical working. 1912. Arnold.

"Thoroughly sound and practical treatise." *Electrical review* (London), 1913.

Ore dressing. Stamp milling. Flotation

Hinchley, J. W. 622.7 H56

Chemical engineering; notes on grinding, sifting, separating and transporting solids. 1914. Churchill. (Text-books of chemical research and engineering.)

Reprinted from the "Chemical world."

Describes ore-dressing and other processes very briefly.

Richards, Robert Hallowell. r 622.7 R41

Ore dressing. v.5. 1909. McGraw.

v.5 is a general index to v.1-4.

Remarkably complete treatise on theory and practice, including all useful minerals except coal. Based on American methods. Author is professor of mining engineering and metallurgy at Massachusetts Institute of Technology.

For v.1-4 see preceding catalogue, v.6.

Wiard, Edward Saxon. 622.7 W66

Theory and practice of ore dressing. 1915. McGraw.

"Differs from its predecessors in not being descriptive to any great extent, but rather advisory. That is to say, it tells mill men how they ought to do things, and gives adequate descriptions of the means how and the reasons why, without wasting any time or space upon machines or methods that have been discarded." *Engineering and mining journal*, 1915.

Attempts to cover practice in western America. Subjects which have been intentionally omitted, or treated but briefly, are: volume stamps, amalgamation, screen ratios, and concentration by centrifugal force.

Del Mar, Algernon. 622.73 D41

Stamp milling; a treatise on practical stamp milling and stamp mill construction. 1912. McGraw.

Author has been engaged in construction and operation of stamp mills, and gives practical details of methods and machinery.

Hoover, Theodore Jesse. 622.75 H77

Concentrating ores by flotation; a description and history of a recent metallurgical development, with a summary of patents and litigation. Ed.3. 1916. Mining Magazine.

"Bibliography," p.201-254, 290-312.

The same. 1912. r 622.75 H77

"Bibliography," p.168-201.

First authoritative systematic treatment of the subject. Describes the numerous processes that have been adopted or proposed.

Megraw, Herbert Ashton. 622.75 M56

The flotation process. 1916. McGraw.

Compilation of patent and journal literature. Not extensive, but of present (1916) value by reason of the importance of the subject, and the lack of information concerning it.

Rickard, Thomas Arthur, ed. 622.75 R43

The flotation process. 1916. Mining and Scientific Press.

Collection of papers on principles and practice of flotation. Most of the material appeared originally in "Mining and scientific press."

Accident prevention

Davies, Henry. r 622.8 D31

Colliery accidents; cause and prevention. 1906. Educational Pub. Co.

Mine Inspectors' Institute of the United States of America. r 622.8 M72

Proceedings, 1909-16. 1909-16.

Taffanel, J. & Dunaime, Pol. r 622.8 T12

Catastrophes minières américaines de Monongah, Darr et Naomi (décembre 1907). 1909. Dunod.

With this is bound "Expériences exécutées à la Station d'essais de Liévin pour l'étude des explosifs contenant des sels alcalins," par J. Taffanel.

The same. (In Annales des mines, v.215, July-Aug., Nov. 1909.)..... r 622.05 A61 v.215

Report describing conditions in each mine and discussing causes and effects of explosions.

United States—Mines bureau. r 622.8 U25

Report of the conference of state and government officials regarding the standardization of mining statistics and mine regulations, Washington, D. C., Feb. 24 and 25, 1916. 1916.

White, Edward Joseph. r 622.8007 W63

Law of personal injuries in mines, including all character of personal injuries received in and about mines and quarries, treating of injuries received by employees, actions by third persons for their negligence and injuries from the negligence of independent contractors. 1905. Thomas Law Book Co.

Harger, John. 622.81 H26

Coal and the prevention of explosions and fires in mines. 1913. Reid.

Discussion of coal dust as an agent in the spreading of explosions, and consideration of methods for removing it or rendering it harmless. Considers also spontaneous combustion in coal.

Illinois—Mine rescue station commission. r 622.86 I22

Report to the governor and General assembly, Aug.-Dec. 1910. 1911.

Paul, James W. r 622.86 P31

Outline of mine-rescue maneuvers. 1913.

Issued by the United States mines bureau.

Taffanel, J. & Fenzy, E. qr 622.86 T12

Description du Poste Central de Secours de Liévin. 1912.

623 Military and naval engineering

Bond, Paul Stanley.

623 B62

The engineer in war, with special reference to the training of the engineer to meet the military obligations of citizenship. 1916. McGraw.

The same.....r 623 B62

"Bibliography," p.162-169.

Reprinted, with revisions and additions, from the "Engineering record."

Robinson, Ernest Franklin.

623 R54

Military preparedness and the engineer. 1916. Clark Book Co.

"Military reading for civilian engineers," p.207-214.

"Purpose...is to place before the engineers of America as accurate an idea as possible of the opportunities and limitations that will confront the civilian engineer in the event of war, to show him what he can do to assist in preparedness against invasion and how he must go about the matter." *Author's preface.*

Brief outline of military training and administration, emphasizing the highly technical nature of military engineering, the desirability of organization in advance of war and the value of the engineer in the National guard.

United States—Engineers corps

r 623 U2532a

Engineer field manual. pt.1-6. Ed.4, rev. 1912. (United States—Engineers corps. Professional papers, no.29.)

Contents: Reconnaissance.—Bridges.—Roads.—Railroads.—Field fortification.—Animal transportation.

Firearms and projectiles

United States—Ordnance office.

r 6500

Cost of guns manufactured by the government; letter from the secretary of war transmitting statement of the cost of the manufacture of all type of guns and other articles at the several arsenals of the United States during the fiscal year ended June 30, 1912. 1912. (62d cong. 3d sess. House. Doc.no.1039, v.134.)

Bethlehem Steel Company, South Bethlehem, Pa.

qr 623.42 B46

What Congress has done concerning a government armor plant and what people are thinking about it. [1916.]

King, William Rice.

qr 623.42 K26

Report on certain experimental and theoretical investigations relative to the quality, form and combination of materials for defensive armor, together with incidental facts relative to their use for industrial purposes. 1870. (United States—Engineers corps. Professional papers, no.17.)

United States—Cost of an armor plant, Committee
to investigate.

r 623.42 U2534

Report pursuant to a provision of an act making appropriations for the naval service for the fiscal year ending June 30, 1915. 1915. (63d cong. 3d sess. House. Doc.no.1620.)

Includes estimates of detailed cost, and testimony of witnesses.

Ommundsen, H. & Robinson, E. H.

q 623.442 O24

Rifles and ammunition and rifle shooting. 1915. Funk.

Well illustrated work on development and present status (1915) of military and sporting rifles. Lengthy consideration of practical rifle shooting.

North, Simon Newton Dexter, & North, R. H. r 623.443 N45

Simeon North, first official pistol maker of the United States; a memoir. 1913. Rumford Press.

Hamilton, Douglas Thomas. 623.451 H19

High-explosive shell manufacture; a comprehensive treatise on the forging, machining and heat-treatment of high-explosive shells and the manufacture of cartridge cases, primers and fuses, giving complete directions for tool equipment and methods of setting up machines, together with a review of the making of powders, high explosives and fulminates. 1916. Industrial Press.

Compiled in part from "Machinery."

American machinist. q 623.4515 A51

Shrapnel and other war material; a reprint of important articles presented in the "American machinist" from Jan. to June 1915. 1915. McGraw.

Illustrated description of modern manufacturing processes.

Hamilton, Douglas Thomas. 623.4515 H19

Shrapnel shell manufacture; a comprehensive treatise on the forging, machining and heat-treatment of shells and the manufacture of cartridge cases and fuses for shrapnel used in field and mountain artillery, giving complete direction for tool equipment and methods of setting up machines, with government specifications for this class of munitions. 1915. Industrial Press.

The same.....r 623.4515 H19

Includes articles published in "Machinery," and much additional material.

Hamilton, Douglas Thomas. 623.4553 H19

Cartridge manufacture; a treatise covering the manufacture of rifle cartridge cases, bullets, powders, primers and cartridge clips, and the designing and making of the tools used in the production of cartridge cases and bullets, together with a description of the principal operations in the manufacture of combination paper and brass shot shells. 1916. Industrial Press.

Compilation dealing with practical manufacture. Description of sheet-metal drawing practice will be of value in other industries.

Pennsylvania—Armory board. r 623.48 P39

Armory board of the state of Pennsylvania; its work and expenditures to Dec. 31, 1912. 1913.

United States—War department. r 623.5 U2532

Gunnery and explosives for field artillery officers. 1911.

"List of authorities consulted in the preparation of this volume," p.5-6.

Brief guide for use of field artillery of the organized militia of the United States.

Military railroads

Connor, William Durward. r 623.63 C75a

Military railways. Rev. ed. 1916. (United States—Engineers corps. Professional papers, no.32.)

Deals with construction, equipment, maintenance and operation, of siege railways (within the field of the enemy's observation) and supply railways beyond this limit.

Pratt, Edwin A.

623.63 P88

Rise of rail-power in war and conquest, 1833-1914, with a bibliography. 1916. Lippincott.

"Bibliography," p.376-397.

Instructive review of the development and present (1914) organization of railways as influencing military tactics, considering the conditions essential to efficiency and the limitations to their usefulness.

Signals. Military aeronautics

United States—Signal office.

r 623.73 U25g2

General, property and disbursing regulations, Signal corps, United States army, revised to include June 1, 1915. Ed.5. 1915. (Manual no.7.)

The same, revised to include April 1, 1912. Ed.4. 1912. (Manual no.7.).....r 623.73 U25g

System of rules and regulations for the government of the Signal bureau, its disbursing officers and other employees, and for the safe keeping of all signal service property.

United States—Signal office.

r 623.73 U25s

Service of information, United States army; a review of the nature, use, field of service and organization of the Signal corps of the army, with an outline of its methods and technical apparatus and notes on the service of information and the organization of the aviation service of the leading foreign armies, by G. P. Scriven. 1915. (Circular no.8.)

United States—Signal office.

r 623.73 U25

Signal book, United States army, 1916. (War department. Doc. no.500.)

Nerz, F.

r 623.73i N23

Scheinwerfer und fernbeleuchtung. 1899. (Sammlung elektrotechnischer vorträge, v.1, pt.10-11.)

Theory and applications of search-lights and reflectors.

Lanchester, Frederick William.

q 623.74 L21

Aircraft in warfare; the dawn of the fourth arm, with introductory preface by Sir David Henderson. 1916. Constable.

"The subject...is and for some time will be highly controversial. In each of its three aspects, the scientific, the military, and the material or manufacturing, it is still in the stage of experiment and speculation," *Sir David Henderson, in Preface.*

As an investigator of the scientific problems of aeronautics, Mr Lanchester ranks high and there is probably no one better fitted to discuss the scope and limitations of military aeronautics.

Naval architecture

Attwood, Edward Lewis.

623.8 A88a

Text-book of theoretical naval architecture. Rev. & enl. ed. 1916. Longmans.

"Books, etc. on theoretical naval architecture," p.488-490.

Grantham, John.

qr 623.8 G78

Iron ship-building, with practical illustrations. 2v. 1858-64. Weale & Lockwood.

v.1. Text.

v.2. Plates.

Griffiths, John Willis.

qr 623.8 G89

Treatise on marine and naval architecture; or, Theory and practice blended in ship building. Ed.4. Appleton.

Holms, A. Campbell.

qr 623.8 H73

Practical shipbuilding; a treatise on the structural design and building of modern steel vessels, the work of construction, from the making of the raw material to the equipped vessel, including subsequent up-keep and repairs. Ed.3. 2v. 1916. Longmans.

v.1. Text.

v.2. Diagrams and illustrations.

Complete and modern. Deals only with the descriptive and practical side, neglecting the mathematical theory.

Marestier, Jean Baptiste.

qr 623.8 M37

Mémoire sur les bateaux à vapeur des États-Unis d'Amérique, avec un appendice sur diverses machines relatives à la marine, précédé du rapport fait à l'Institut sur ce mémoire par Mm. Sané, Biot, Poisson et C. Dupin. 2v. 1824.

v.1. [Texte.]

v.2. Planches.

Gives dimensions and other data of many early American steamboats and brief description of the Fulton, Chancellor Livingston, Washington, Savannah and Paragon. Discusses practicability of steam navigation.

Rogers, George W.

r 623.8 R61

Shipwright's own book; a key to most of the different kinds of lines made use of by ship builders, with useful rules and tables of measurement of solids, superficies, &c. 1845. M'Millin. Pittsburgh.

United States—Equipment bureau.

r 623.8 U253

Report of board on the location of coaling stations on the Atlantic coast. 1902.

Appendix 1, p.217-239, of "Report of the Bureau of equipment," 1901/02.

United States—Navy department.

r 623.803 U25

Specifications [for naval stores and material], 1909-12. 1909-12.

—Index, arranged alphabetically; quarterly, April 1, 1915-date.

1915-date.....r 623.803 U25a

Number for July 1915 wanting.

Institution of Naval Architects.

qr 623.805 I24

Transactions; index, v.47-54, 1905-12.

For indexes for v.1-42 and for volumes of magazine see preceding catalogue, v.1.

McDermaid, Neil J.

623.82 M14

Shipyard practice as applied to warship construction. 1911. Longmans.

"This work covers a field of its own in that it is restricted to the English man-of-war and primarily the battleship. As a brief description of the principal operations to be performed in building such a vessel...this is an excellent work." *Engineering news*, 1911.

Sueter, Murray Fraser.

q 623.9 S94

Evolution of the submarine boat, mine and torpedo, from the 16th century to the present time. Ed.2. 1908. Griffin.

"List of works from which information has been largely gathered," p.373-374.

Author has an intimate practical knowledge, gained by experience in command of modern British submarines. The history of development is given in detail and is extremely interesting.

624 Bridges and roofs

Boller, Alfred Pancoast.

r 624 B61

Practical treatise on the construction of iron highway bridges, for the use of town committees, together with a short essay upon the application of the principles of the lever to a ready analysis of the strains upon the more customary forms of beams and trusses. 1876. Wiley.

Davis, Charles.

qr 624 D31

Record of progress of work [on Monongahela bridge]; rough notes, July 16, 1880–Feb. 5, 1881.

Manuscript copy.

Hess, Howard Drysdale.

624 H48a

Graphics and structural design. Ed.2. 1915. Wiley.

The same. 1913..... **r 624 H48**

Aims to give information on structural engineering needed by mechanical engineering students, and treats of subjects on the border line between civil and mechanical engineering. Includes problems.

Hool, George Albert.

624 H77

Elements of structures; prepared in the Extension division of the University of Wisconsin. 1912. McGraw. (Engineering education series.)

Elementary text "developed solely with the idea of using it in correspondence study." *Preface.*

Johnson, John Butler, and others.

r 624 J36

Theory and practice of modern framed structures. Ed.9. v.3. 1916. Wiley.

v.3. Design.

A standard treatise on design, intended for students and engineers. The best work on the subject.

For v.1–2 see preceding catalogue, v.6.

Langer, Josef.

qr 624 L25

Die eisenconstructionen für brücken und dachstühle, dargestellt in zehn systemen. Ed.2, enl. 1862.

Marburg, Edgar.

624 M36

Framed structures and girders; theory and practice. v.1, pt.1. 1911. McGraw.

v.1, pt.1. Stresses.

"Every-day practical bridge-office methods are introduced repeatedly without in any way interfering with an orderly, logical development of the subject." *Engineering record*, 1911.

Matheson, Ewing.

qr 624 M46

Works in iron; bridge and roof structures. 1873. Spon.

"Vocabulary of technical terms used in the design, manufacture and commerce of iron structures; English, French, German, Italian, Spanish," p.299–331.

Merriman, Mansfield, & Jacoby, H. S.

624 M63

Text-book on roofs and bridges. Ed.5. v.3. 1912.

v.3. Bridge design.

Contains bibliographies.

For v.1–2, 4 see preceding catalogue, v.1.

Missouri—State highway engineer.

r 624 M74

General specifications for roads and bridges, 1911.

Deals with various kinds of road, not including brick, and with highway bridges only.

Monongahela Bridge Co.

qr 624 M83

New Smithfield st. bridge, construction account; estimate no.1-5, Aug.-Nov. 1880, Jan. 1881.

With this are bound: Plan and estimate for a new Monongahela bridge, submitted by Charles Pfeifer; Monongahela bridge; specifications for the superstructure; specifications for masonry for piers and abutments; North Side bridge over Allegheny river; specifications for foundations, masonry and filling.

Shields, J. E.

r 624 S55

Treatise on engineering construction, embracing discussions of the principles involved and descriptions of the materials used. 1877. Van Nostrand.

Spofford, Charles Milton.

624 S76

Theory of structures. Ed.2, rev. & enl. 1915. McGraw.

"Valuable addition to the already existing works on framed structures, particularly for the student to whom a thorough understanding of the principles and fundamental theories is more important than the design of complete structures." *Engineering news*, 1911.

Author is (1915) professor of civil engineering at Massachusetts Institute of Technology.

Thayer, Horace Richmond.

624 T34

Structural design. v.1-2. 1912-14. Van Nostrand.

v.1. Elements of structural design.

v.2. Design of simple structures.

Presupposes knowledge of mechanics, stresses and the underlying mathematics.

"Author has succeeded admirably in taking up the subject from a new and unusual viewpoint for writers on structural design. His idea has evidently been not so much to teach how to figure stresses as to teach how to design something which can be built at a reasonable cost in the ordinary structural shop in the United States." *Technology review*, 1912.

The same. v.1-2. 1913-14. r 624 T34

v.1 is a revised second edition.

Tyrrell, Henry Grattan.

624 T98

Artistic bridge design; a systematic treatise on the design of modern bridges according to aesthetic principles, with an introduction by Thomas Hastings. 1912. Clark.

Written in clear and non-professional language. Fully illustrated.

Tyrrell, Henry Grattan.

r 624 T98

Esthetic treatment of city bridges. Civic Press. (American city pamphlets.)

Waddell, John Alexander Low.

r 624 W11b

Bridge engineering. 2v. 1916. Wiley.

A monumental work, by far the most comprehensive in its field. Theory of stresses is intentionally omitted and movable bridges are considered only in a general way. With these exceptions every branch of bridge engineering, including substructure and superstructure, is treated with remarkable fullness. In addition to strictly engineering matters there is much on such subjects as history, aesthetics, business matters and professional ethics. The exhaustive glossary of technical terms is in itself a valuable reference work.

"He has withheld from his readers little or nothing communicable which he has gathered from his extended experience. He has projected his personality into his work with unusual frankness. . . . The book makes for the highest class of bridge engineering. It seems likely to prove indispensable to most bridge engineers, and it is certainly a veritable mine of information for all beginners." *Canadian engineer*, 1916.

- Warren, William Henry.** r 624 W24
Engineering construction in iron, steel and timber. 1894. Longmans.
- Winkler, Emil.** r 624 W78a
Vorträge über brückenbau, gehalten an den technischen hochschulen in Prag, Wien und Berlin. v.1, pt.1, pt.2a, v.4, pt.2, in iv. 1872-74.
v.1, pt.1-2a. Theorie der brücken: Aeussere kräfte gerader träger; Innere kräfte gerader träger.
v.4, pt.2. Eiserne brücken: Gitterträger und lager gerader träger.
p.49-104 of v.1, pt.1 wanting.
"Literatur" at the end of each part.
- Nebraska—State engineer.** r 624.0123 N18
General specifications for steel and concrete bridges, 1911.
- Universal Portland Cement Co.** r 624.0123 U25
Small concrete bridges and culverts. 1913.
Shows many designs, giving some costs and discussing methods of construction.
- Heinzerling, Friedrich.** r 624.0142 H42
Die brücken in eisen; baumaterial, technische entwicklung, konstruktion und statische berechnung der eisernen brücken, für ingenieure, eisenbautechniker und technische lehranstalten. 1870. (Die schule der baukunst, v.2, pt.4.)
- Lentz, Hugo.** qr 624.0142 L61
Die balkenbrücken von schmiedeeisen. 1865.
- Sternberg, H. ed.** qr 624.0142 S83
Sammlung ausgeführter constructionen schmiedeeiserner brücken [plates].
- Baker, Sir Benjamin.** r 624.0222 B17
Long-span railway bridges, with numerous formulæ and tables giving the weight of iron or steel required in bridges from 300 feet to the limiting spans. 1868. Baird.
- Greiner, John Edwin.** qr 624.041 G87
General specifications for bridges. pt.1-3, in i v. 1911. Privately printed.
Contents: Steel stationary bridges.—Movable bridges.—Substructures and concrete bridges.
- Hudson, Clarence Walter.** q 624.044 H88
Deflections and statically indeterminate stresses. 1911. Wiley.
Purpose is to "give the very few underlying principles of the subject and show their application to a number of the problems to which they apply." *Preface.*
"The text covers so many features that are praiseworthy that they overshadow the minor defects...May very properly be regarded as a valuable supplement to all of the works dealing with the same general subject." *Henry S. Jacoby, in Engineering news, 1912.*
- Maney, George Alfred.** qr 620.5 M72s no.1
Secondary stresses and other problems in rigid frames; a new method of solution. 1915. (In Minnesota University. Studies in engineering, no.1.)

Ketchum, Milo Smith.

r 624.08 K22

Structural engineers' handbook; data for the design and construction of steel bridges and buildings. 1914. McGraw.

"References" at the end of many chapters.

Exhaustive reference book of a very high order of merit. Much wider in scope than subtitle indicates. In addition to design of steel superstructure it includes discussion of engineering materials in general, drafting, estimating, structural mechanics, timber trestles, retaining walls, piers and abutments. Much of the material has not hitherto been published in book form, for example the brief rules for inspection, and the detailed instructions for erection of structural steel which are particularly useful.

Alexander, William, C. E.

624.083 A37

Columns and struts; theory and practical design, with examples worked out. 1912. Spon.

Result of author's practical investigations, in which he found existing formulas inaccurate or inadequate. Contains chapter studying in detail cause and nature of failure of struts in Quebec bridge disaster of 1907.

Brangwyn, Frank, & Sparrow, W. S.

q 624.09 B69

Book of bridges. 1915. Lane.

Contains historical material, but is primarily a study of bridges from the artistic point of view, considering, not the principles of æsthetic design, but the artist's conception of various existing bridges.

Foundations. Piers

Fowler, Charles Evan.

624.1 F84a

Practical treatise on sub-aqueous foundations, including the coffer-dam process for piers and dredges and dredging, with numerous practical examples from actual work. Ed.3, rev. & enl. 1914. Wiley.

Formerly published with title "Coffer-dam process for piers."

Howe, Malverd Abijah.

624.1 H85

Foundations; a short text-book on ordinary foundations, including a brief description of the methods used for difficult foundations. 1914. Wiley.

References at the end of each chapter.

Very brief and presents nothing new, but is concise and practical.

Jacoby, Henry Sylvester, & Davis, R. P.

624.1 J13

Foundations of bridges and buildings. 1914. McGraw.

"References to engineering literature," p.562-597.

The same.....r 624.1 J13

"Essentially a book for the class room...Well written, systematic and accurate."

C. S. Rindsfoos, in Engineering news, 1914.

Girders. Stresses and strains. Buildings

Brandt, E.

r 624.2 B69

Lehrbuch der eisen-konstruktionen, mit besonderer anwendung auf den hochbau; ein leitfaden zum praktischen gebrauch und zu vorlesungen an technischen lehranstalten. 1865.

Fairbairn, Sir William.

r 624.2 F15

On the application of cast and wrought iron to building purposes. 1854. Wiley.

Author was a celebrated English civil engineer, a high authority on all mechanical and engineering problems.

Ketchum, Milo Smith.

624.2 K22a

Design of steel mill buildings and the calculation of stresses in framed structures. Ed.3, enl. 1912. McGraw.

Occupies a position between the elementary works on stresses and the more elaborate works on bridge design. Is in reality a brief treatise on framed structures with particular stress laid on the design of large open buildings with steel frame work.

Melick, Cyrus Alan.

r 624.2 M58

Stresses in tall buildings; an investigation of the stresses in tall steel buildings of the cage construction type with portal bracing. 1912. (Ohio State University—Engineering college. Bulletin no.8.)

"A series of mathematical demonstrations, followed by an extensive series of applications, and, finally...conclusions...with references to the chapters from which the conclusions are drawn." *Introduction.*

Moore, Lewis Eugene.

624.2 M87

Design of plate girders. 1913. McGraw.

"General specifications for steel railroad bridges" (New York, New Haven and Hartford Railroad Company, 1912), p.184-211.

"The fundamental idea has been...to develop the ability of the student to see all the elements surrounding a given case and then to lead him to make an intelligent choice of a method to be pursued in his design." *Preface.*

Tyrrell, Henry Grattan.

624.2 T98e

Engineering of shops and factories. 1912. McGraw.

"Bibliography," p.389-394.

Supplementary to his "Treatise on the design and construction of mill buildings and other industrial plants." Deals with details of factory construction, mechanical handling of materials and all the important features of factory sanitation.

Types of bridges

Foster, Wolcott Cronk.

qr 624.3 F81

Treatise on wooden trestle bridges and their concrete substitutes according to the present practice on American railroads. Ed.4, rev. & enl. 1913. Wiley.

"Bibliography," p.395-430.

Canada—Quebec bridge inquiry, Royal commission on. qr 624.33 C16
Report. 3v. 1908.

v.1. Reports.

v.2. Minutes of proceedings and printed exhibits.

v.3. Drawings.

Burr, William Hubert.

624.5 B94

Suspension bridges, arch ribs and cantilevers. 1913. Wiley.

Purely mathematical analysis, dealing with a special field in bridge design.

Steinman, David Bernard.

624.5 S82

Suspension bridges and cantilevers; their economic proportions and limiting spans. Ed.2, rev. 1913. Van Nostrand. (Van Nostrand science series.)

Contains bibliographies.

Small book, comprising a very clear study of long-span bridge construction.

"His theoretic and practical discussion of the economic selection of the type of bridge best suited for the place supplies a long-felt want." *Journal of the Western Society of Engineers, 1914.*

Melan, Josef. 624.6 M58

Theory of arches and suspension bridges; authorized translation by D. B. Steinman. 1913. Clark.

"Bibliography," p.293-298.

"No other work of the same scope was to be found in any language, at least none that could compare with Melan's for thoroughness of treatment and masterly style. The place it has been given in the offices of consulting engineers and bridge departments, the frequent references to it in our technical literature and the employment of its formulae or methods in the design of some of our largest structures indicate that even before translation, there has been a real demand for Melan's book among American engineers." *Translator's preface.*

Nicholson, Peter. r 624.6 N31

Guide to railway masonry, containing a complete treatise on the oblique arch; rev. and corrected throughout by R. Cowen. Ed.3. 1846. Groombridge.

[**Reports on bridge building, 1866-75.**] 1867-[75]. r 624.6 R35

Includes the report of the chief engineer of the Illinois and St. Louis Bridge Co. May 1868, Oct. 1870; Annual report of the city engineer of the city of Boston for 1875; Annual report of the president and directors of the Louisville Bridge Co. for 1871; Annual report of the president and directors to the stockholders of the Covington and Cincinnati Bridge Co. for the year ending Feb. 28, 1867.

Dartein, Marie Fernand de. qb 624.621 D26

Études sur les ponts en pierre remarquables par leur décoration, antérieurs au 19e siècle. v.1. 1912. Béranger.

v.1. Ponts français antérieurs au 18e siècle.

Technical and historical information relative to their construction, with measured drawings.

For v.2-4 see preceding catalogue, v.6.

625 Railroad and road engineering

Galton, Sir Douglas Strutt. qr 625 G15

Memorandum on brake experiments made by the North Eastern Railway Company at York on the 14th and 15th July 1879 upon a train fitted with the Westinghouse automatic brake.

With this is bound "Oesterreichische eisenbahnen, entworfen und ausgeführt in den jahren 1857 bis 1867 unter der leitung von Carl von Etzel; anhang zum text der abtheilung 2."

Rinecker, F. qr 625 R47

Das Gotthard-unternehmen; eine zusammenstellung der wichtigsten projecte in technischer und finanzieller beziehung. 1878.

"Literatur-verzeichniss," p.236-237.

Periodicals

American Railway Engineering and Maintenance-of-way Association. r 625.05 A512b

Bulletin; monthly, Nov. 1900-Sept. 1908. no.1-103. 1900-08.
No.2-28, 33-40, 58 wanting.

International Railway Congress (5th), London, 1895. qr 625.05 I2482

[Proceedings.] v.4. [1897.]
English edition.

- International Railway Congress (6th), Paris, 1900.** qr 625.05 I2483
 Proceedings. v.3. 1901.
 English edition.

qr 625.05 R1574

- Railway mechanical engineer [monthly], 1912-date.** v.86-date. 1912-date.

v.86-v.87, no.5, 1912-May 1913, title reads "American engineer."

v.87, no.6-v.89, June 1913-15, title reads "Railway age gazette, mechanical edition."

For v.61-85 see preceding catalogue, v.1 under title "Railroad and engineering journal."

Construction. Maintenance

- Allen, Calvin Frank, comp.** 625.1 A42
 Field and office tables, specially applicable to railroads. Rev. ed.
 1914. McGraw.
 Bound with his "Railroad curves and earthwork."

- Allen, Calvin Frank.** 625.1 A42
 Railroad curves and earthwork. Ed.5, rev. 1914. McGraw.
 For practical engineers and students. Describes modern methods of reconnaissance and preliminary and final location.

- Crandall, Charles Lee, & Barnes, F. A.** 625.1 C86
 Railroad construction. 1913. McGraw.
 "References" at the end of each chapter.
 Text-book of estimating and construction of permanent way. Includes chapter on tunneling.

- Cross, C. S.** r 625.11 C89
 Engineer's field book. 1855. Hallet.

- Heyne, Wilhelm.** r 625.11 H51
 Das traciren von eisenbahnen. 1865.
 Atlas of plates wanting.

- Mifflin, Samuel W.** r 625.11 M67
 Methods of location; or, Modes of describing and adjusting railway curves and tangents as practiced by the engineers of Pennsylvania. Ed.3, rev. 1854.

- Searles, William Henry.** 625.11 S43a
 Field engineering; a hand-book of the theory and practice of railway surveying, location and construction. Ed.17, rev. & enl. 2v. in 1. 1915. Wiley.

- Sellew, William Hamilton.** q 625.143 S46
 Steel rails; their history, properties, strength and manufacture, with notes on the principles of rolling stock and track design. 1913. Van Nostrand.

The same.....qr 625.143 S46

Bibliography of rail specifications, p.494-500; and a number of special bibliographies compiled by the Technology department, Carnegie Library of Pittsburgh.
 Comprehensive, systematic presentation of the subject.

Engineering Standards Committee.

qr 625.1434 E64a

British standard specification and sections of steel fishplates for British standard bull head railway rails (for rails from 70 lbs. to 100 lbs. per yard inclusive) and for British standard flat bottom railway rails (for rails from 20 lbs. to 100 lbs. per yard inclusive). [Rev. ed.] 1914. (British standard sections, no.47.)

Sellew, William Hamilton.

625.17 S46

Railway maintenance engineering, with notes on construction. 1915. Van Nostrand.

"Bibliography" at the end of each chapter.

Forms part of the course of instruction in railway engineering at the University of Michigan. Does not deal with yards and terminals, nor large bridges. Signaling is treated briefly.

Willard, William Clyde.

625.17 W73

Maintenance of way and structures. 1915. McGraw.

Under modern traffic conditions this subject has advanced in importance, and more scientific methods are necessary. The author says (p.2), "The tendency at present... is to recognize more and more the engineering importance of the work, and the necessity for placing experienced and trained engineers in charge of it. The problem to be dealt with is complicated, involving heavy axle loads, high speed, a high grade of track construction and maintenance, and a very close economy."

Of the recent works on the subject this is the most comprehensive. Does not include signaling.

Pennsylvania Company.

r 625.18 P39

Specifications of the materials and workmanship of three buildings for a general passenger depot to be constructed on the property of the Pittsburgh, Ft. Wayne and Chicago Ry., Chicago, Ill. 1880. Pittsburgh.

Trains**Brakes****Carnegie Library of Pittsburgh.**

r 016.62525 C21

Air-brakes; references to books and magazine articles. 1915. Pittsburgh.

Reprinted from the "Monthly bulletin," July 1915.

Hunt Air Brake Company, Pittsburgh, Pa.

r 625.25 H93

Instruction book for the maintenance and handling of the Hunt air brake system. 1895. Pittsburgh.

Ludy, Llewellyn V.

625.25 L97

The air-brake; a practical presentation of the modern developments of the air-brake for steam and electric railroad trains. 1913. Amer. School of Correspondence.

Brief practical correspondence course text, considering both Westinghouse and New York systems.

625.25 W568

Westinghouse air brake system; a complete and strictly up-to-date treatise containing detailed descriptions and explanations of all the various parts of the Westinghouse air brake; comp. and ed. by the world's leading air brake experts. 1911. Drake.

Comprehensive and practical. Colored diagrams.

Repair shops

Railway age gazette.

q 625.26 R15

Railway shop kinks; comp. under the direction of a committee of the International Railway General Foremen's Association by R. V. Wright. 1911.

Valuable collection of practical suggestions and devices for overcoming difficulties that have been met in shop practice. Fully and excellently illustrated.

"There is nothing nearly like it in any language...The book is so excellent that little room is left for criticism." *Engineer*, 1911.

Subways. Grade crossings

Gilbert, Gilbert Haskell, and others.

625.4 G38

Subways and tunnels of New York; methods and costs, with an appendix on tunneling machinery and methods and tables of engineering data. 1912. Wiley.

Partly compilation. Discusses individual subways, describing methods, indicating costs and giving many diagrams and sections. Appendix on tunneling plant and equipment forms almost half the book.

Bureau of Railway Economics, Washington, D. C.

qr 016.62541 B89

List of references on grade crossings.

Mountain railroads

Lévy-Lambert, Ad.

r 625.52 L66

Chemins de fer funiculaires; transports aériens. Ed.2, rev. & enl. [1911?] (Encyclopédie des travaux publics.)

"Ouvrages à consulter," p.517-519.

Street railroads

American Electric Railway Transportation and
Traffic Association.

r 625.6 A512

Proceedings of the annual convention (5th-date), 1912-date.

Organized in 1908 as American Street and Interurban Railway Transportation and Traffic Association.

This association is an affiliated society with the American Electric Railway Engineering Association.

For volumes for 1909-11 see preceding catalogue, v.6.

Chicago—Traction valuation commission.

r 625.6 C432rp

Report on the values of the properties of the Chicago Consolidated Traction Company inside the city limits, submitted to the Committee on local transportation of the Chicago city council. 1910.

Contents: Report.—Detailed exhibits.

Chicago Traction, Board of Supervising Engineers.

r 625.6 C43

Annual report (4th-7th), covering the period ended Jan. 31, 1911-14. 1908-16.

For reports for 1908-10 see preceding catalogue, v.6.

New York (state)—Public service commission.

r 625.6 N2612p

First district.

Proceedings, July 1st, 1912-June 1916. v.7-14. [1912-16.]

For v.1-6 see preceding catalogue, v.6.

New York (state)—Public service commission. r 625.6 N2612
First district.

Report (6th–10th), for the year ending Dec. 31, 1912–16. 1913–17.

"The Public service commission for the first district has jurisdiction over the counties of New York, Kings, Queens and Richmond—New York city. The Public service commission for the second district has jurisdiction over the remainder of the state. The Public service commission succeeded to the powers of the railroad commissioners, the Commission of gas and electricity and the state inspector of gas meters. These bodies had jurisdiction over the entire state and ceased to exist upon June 30, 1907. All of their powers and duties within the area of greater New York were transferred to the Public service commission for the first district. The Board of rapid transit railroad commissioners for New York city was also abolished by the act and its powers and duties transferred to the Public service commission for the first district."

For reports for 1907–11 see preceding catalogue, v.6.

Parsons (Barclay) & Klapp, New York. qr 625.6 P26

Report on Detroit street railway traffic and proposed subway, made to Board of street railway commissioners, city of Detroit, 1915. [1915.]

Pennsylvania—Engineering bureau. r 625.6 P39

Annual report (1st–2d), for the year ending June 30, 1914–15. 1915–17.

Philadelphia—City transit department. qr 625.6 P494

Special report on rapid transit development for Philadelphia; submitted to the select and common councils of Philadelphia in accordance with resolution of Feb. 4, 1915. 1915.

List and description of proposed subway, surface and elevated lines, with estimates of cost.

Philadelphia—City transit department. qr 625.6 P494s

Study and review of the problem of passenger transportation in Philadelphia by a unified system of lines; an analysis of the plans proposed for its solution with suggested methods for their improvement, by W. S. Twining, submitted to the select and common councils of Philadelphia, March 29, 1916. [1916.]

Philadelphia—Transit commissioner. qr 625.6 P49

Report, July 1913. 2v. [1913.]

v.1. Text.

v.2. Maps and plans.

Engineering Standards Committee. qr 691.7 E64

Tramway rails and fish plates. 1903. (British standard sections, no.2.)

Bound with its "Equal angles, unequal angles, etc."

Maps—Pennsylvania. (1912.) qr 625.63 M

Electric railway map of Pennsylvania; issued by the Pennsylvania state railroad commission. 1912.

Size, 32 9/16 x 52 7/8 inches, folded in 4° cover; scale, 6 miles to 1 inch.

Roads. Highways

Agg, Tansy Radford. 625.7 A26

Construction of roads and pavements. 1916. McGraw.

Text-book by professor of highway engineering, Iowa State College. Contains also reference tables and data intended for practicing engineers.

Ahlburg, *Prof.*

r 625.7 A28

Der strassenbau mit einschluss der construction der strassenbrücken.
1870.

Allegheny county, Pa.—County commissioners.

r 625.7 A42

Contract, specifications and bond for county roads, Allegheny county, Pa. [1895?]

With this is bound "Borough of Sewickley, Pa., street improvements; proposals for regulating, grading and paving."

Baker, Ira Osborn.

625.7 B17a

Treatise on roads and pavements. Ed.2, enl. 1913. Wiley.

Discussion from the engineer's point of view of the principles involved in their construction. Considers the economics and location of country roads and the construction and maintenance of earth roads, as well as hard-surface roads and pavements.

Ballen, Dorothy, *comp.*

r 016.6257 B21

Bibliography of road-making and roads in the United Kingdom, with an introduction by Sir George Gibb. 1914. King. (Studies in economics and political science.)

A revised and considerably enlarged edition of the bibliography compiled by Mr and Mrs Webb in 1906.

Blanchard, Arthur Horace, & Drowne, H. B.

625.7 B53

Text-book on highway engineering. 1913. Wiley.

"A veritable cyclopedia, not only for the professional engineer, but for the intelligent general reader in search of the latest information and best current practice." *Engineering news*, 1913.

Burgoyne, Sir John Fox.

r 625.7 B91

Rudiments of the art of constructing and repairing common roads and a general survey of the principal metropolitan roads, together with additional remarks on the maintenance of macadamised roads. Ed.3, enl. 1861-62. Weale.

Connecticut—Highway commissioner.

r 625.7 C75

Biennial report, 1895-96, 1899-1900, 1903-08, 1913/14-1915/16. 1897-1917.

Reports for 1895-96 and 1899-1900 were annual.

Du Pont de Nemours (E. I.) Powder Co. Wilmington, Del.

r 625.7 D93

• Road construction and maintenance. 1915.

Engineers' Society of Western Pennsylvania.

r 625.7 E64

Final report of committee on roads, with draft of proposed road act. 1891. Pittsburgh.

Report read and approved [by title at 11th annual meeting] Jan. 20, 1891 (Proceedings, v.7, p.26).

Gillespie, William Mitchell.

r 625.7 G41a

Manual of the principles and practice of road-making, comprising the location, construction and improvement of roads and rail-roads. Ed.8 [enl.]. 1854. Barnes.

qr 625.7 G62

Good roads; devoted to the construction and maintenance of roads and streets, 1911-date. v.40-date. 1911-date.

v.40-v.41, no.6. (new ser. v.11-v.12, no.6.) 1910-June 1911. 2v.

v.41, 1911-date. (3d ser. v.1-date.) 1911-date.

Continuation of "Elliott's magazine, including L. A. W. bulletin and Good roads."

Good roads—continued.**qr 625.7 G62**

Beginning with June 10, 1911, the monthly issue was merged into the weekly edition, taking the volume number of the weekly.

After issuing v.41-42 the publishers repeated that numbering for the two succeeding volumes. To avoid duplication these volumes have been numbered as follows:

v.41. Jan.-June 1911.

v.42. July-Dec. 1911.

v.42a (v.41). Jan.-June 1912.

v.42b (v.42). July-Dec. 1912.

v.43. Jan.-June 1913.

For v.37-39 see preceding catalogue, v.6. under title "Good roads magazine."

r 625.7 O16**Good roads year book [1912-date]. 1912-date. Amer. Highway Assoc.**

Contains bibliographies.

1912-15 title reads "Official good roads year book of the United States."

Slight attention to engineering features. Summarizes information regarding roads of the country, and the various agencies concerned with their maintenance.

Harger, Wilson Gardner, & Bonney, E. A.**625.7 H26**

Handbook for highway engineers, containing information ordinarily used in the design and construction of roads warranting an expenditure of \$5,000 to \$30,000 per mile. Ed.2, rev. & enl. 1916. McGraw.

Contents: Principles of design.—Practice of design and construction.

The same. 1912.....**r 625.7 H26**

Judiciously condensed manual of practice in road location and construction. For the actual road builder rather than the student of engineering.

International Road Congress (2d), Brussels, 1910.**625.7 I24**

Highway engineering as presented at the second International Road Congress, Brussels, 1910, by A. H. Blanchard and H. B. Drowné. 1911. Wiley.

The same.....**r 625.7 I24**

Record of proceedings in condensed form, giving broad survey of foreign practice in road and pavement construction.

McCallie, Samuel Washington.**qr 557.58 G31 no.8, 24, 28**

Report on the public roads of Georgia (1st-3d). 1901-12. (In Georgia—Geological survey. Bulletin, no.8, 24, 28.)

1st report title reads "Preliminary report on the roads and road-building materials of Georgia."

Maine—State highway commission.**r 625.7 M26a**

Annual report (1st-3d), July 1913-15. 1914-16.

This commission succeeds the State highway department. For reports for preceding years see Maine—State highway department. Annual report (r 625.7 M26).

Maine—State highway department.**r 625.7 M26**

Annual report (7th-9th) of the commissioner of highways, 1911-July 12, 1913. 1912-14.

In July 1913 this department was succeeded by the State highway commission. The 9th and final report of the department will be found with the Annual report of the commission, v.1 (r 625.7 M26a).

For reports for 1909-10 see preceding catalogue, v.6.

New York (state)—Highways commission.**r 625.7 N261**

Report, 1912-15. 1913-16.

Pennsylvania—State highway department.**r 625.7 P399**

Bulletin. no.1-11. 1910-15.

Ravenel, Samuel W. j 625.7 R23

Ravenel's road primer for school children. 1912. McClurg.

Need and effects of good roads and the elementary principles and practices of road making. Illustrated.

Tillson, George William. 625.7 T46a

Street pavements and paving materials; a manual of city pavements, the methods and materials of their construction. Ed.2. 1912. Wiley.

Describes the evolution of the different forms of pavement and the kinds now used. Author is consulting engineer to the borough president, Brooklyn (1912).

United States—Federal aid in the construction of post roads, Joint committee on. r 625.7 U253f

Federal aid to good roads; report, Nov. 25, 1914. 1915.

"Bibliography," p.293-313.

United States—Federal aid in the construction of post roads, Joint committee on. r 625.7 U253

Public road systems of foreign countries and of the several states, prepared under the direction of Jonathan Bourne, Sept. 26, 1913. 1913.

With this is bound its "Federal aid to good roads."

United States—Forest service. r 625.7 U2532

Trail construction on the national forests. 1915.

Wood, Francis. 625.7 W85

Modern road construction; a practical treatise for the use of engineers, students, members of local authorities, etc. 1912. Griffin.

Gives concise information on the advantages of different road materials, statistics concerning cost and endurance, etc. Particular attention is given to tarred and bituminous surfaces.

Ontario. Statutes. r 625.7007 O25

Ontario highway legislation; comp. under the direction of the commissioner of highways. 1914.

Engineering Standards Committee. qr 625.7624 E64

British standard nomenclature of tars, pitches, bitumens and asphalts, when used for road purposes, and British standard specifications for tar and pitch for road purposes. 1916. (Report no.76.)

Carnegie Library of Pittsburgh. r 016.6257689 C21

Road dust preventives; references to books and magazine articles. 1916. Pittsburgh.

Wild, Leo. r 625.7689 W71

Der strassenstaub und dessen bekämpfung; ein beitrag zur förderung der strassenhygiene, mit spezieller berücksichtigung der oberflächen-teerung (system Basel) und verschiedener systeme zur erstellung von teermakadamstrassen. 1911.

"Benutzte literatur," p.98.

Pavements

Durham, Henry Welles. qr 625.8 D94

Street paving and maintenance in European cities; a report, Dec. 31, 1913. [1913.]

Whinery, Samuel.

r 625.8 W62a

Specifications for street roadway pavements, with instructions to inspectors on street paving work. Ed.2, rev. & enl. 1913. McGraw.

Gives specifications for foundations of various kinds, for bituminous, granite, brick and wood block pavements. A sample specification for untried or experimental pavement is included.

Reilly, Peter C.

r 625.832 R31

Proper oil for treating creosoted wood blocks for paving; paper read at the convention of the American Society of Municipal Improvements, held in Dayton, Ohio, Oct. 12-15, 1915. [1915.] Republic Creosoting Co.

r 625.84 C74

[Concrete roads and pavements; a collection of pamphlets.] 1915.

Contents: Portland cement concrete highways, Specifications for one-course concrete street pavement [and] Specifications for one-course concrete highway, issued by Association of American Portland Cement Manufacturers.—Standard specifications for one-course concrete alley pavement [and] Standard specifications for two-course concrete pavement, issued by American Concrete Institute.

Hanson, Edward Smith.

625.84 H24

Concrete roads and pavements. 1913. Cement Era Pub. Co.

Compilation dealing with advantages, methods of construction, and costs of concrete roads. Describes work done in many parts of the United States and gives specifications. Author is (1913) editor of the "Cement era."

Universal Portland Cement Co.

r 625.84 U25

Concrete pavements, sidewalks, curb and gutter. 1913.

Practical information. Many illustrations.

Hubbard, Prévost.

r 660.5 I24 no.4

Bituminous roads and pavements and their materials of construction. 1912. (In Institute of Industrial Research, Washington, D. C. Bulletin no.4)

Richardson, Clifford.

625.85 R41a

Asphalt construction for pavements and highways; a pocketbook for engineers, contractors and inspectors. 1913. McGraw.

Instruction book on handling and application of bitumens, stone and mixtures used in road building.

National Paving Brick Manufacturers Association.

r 625.861 N15

Specifications for the construction of vitrified brick street pavements and vitrified brick highways. [Rev. ed. 1914.]

With this is bound its "Directions for laying vitrified brick street pavements."

Engineering Standards Committee.

qr 625.862 E64

British standard specification for sizes of broken stone and chip-pings. 1913. (British standard sections no.63.)

Ship railroads

[Eads, James Buchanan, ed.]

r 625.91 E12

Letters from leading engineers and naval architects as to the practicability of constructing and operating a ship railway. 1882. Jones.

In favor of the project of a ship railway for transportation of loaded vessels across Isthmus of Tehuantepec.

626 Canals and canal engineering

International Congress of Navigation (12th), Philadelphia, 1912. r 626 I248a

General report. 3v. in 5. [1912-13.]

v.1-2. Questions and communications.

v.3. General information.—Minutes of the meetings.—Entertainments and excursions.

No.7, 17, 25-26, 50, 66, 75, 87, 92, 99, 115 never published.

New York (state)—Engineer and surveyor. r 626 N26

Barge canal bulletin; monthly, Feb. 1908-1916. v.1-9. [1908]-16.

v.3, no.7, 10-11, July, Oct.-Nov. 1910, wanting.

United States—Engineers corps. r 626.12 U25

Intracoastal waterway, Beaufort, N. C. to Key West, Fla. section; letter from the acting secretary of war, transmitting with a letter from the chief of engineers, report on survey of the Beaufort, N. C. to Key West, Fla. section of the proposed continuous inland waterway from Boston, Mass. to the Rio Grande. 1913. (63d cong. 1st sess. House. Doc. no.229, v.4.)

United States—Engineers corps. r 626.12 U25i

Intracoastal waterway, Boston, Mass. to Beaufort, N. C. section; letter from the secretary of war, transmitting, with a letter from the chief of engineers, report on survey of the Boston, Mass. to Beaufort, N. C. section of the proposed continuous inland waterway from Boston, Mass. to the Rio Grande. 1912. (62d cong. 2d sess. House. Doc. no.391, v.23.)

United States—National waterways commission. qr 626.7 U25

Document. no.5, 10, 12-13, 16-18, 20-21. 1909-11.

Bengal—Public works department—Irrigation branch. qr 626.8 B43

Revenue report for the year 1907/08. 1908.

Bombay (presidency)—Public works department. qr 626.8 B61

Annual report of the supplies of water available for irrigation works and of the discharge from catchment areas in the Bombay presidency, 1905/06-1906/07.

Etcheverry, Bernard Alfred. 626.8 E87

Irrigation practice and engineering. 3v. 1915-16. McGraw.

v.1. Use of irrigation water and irrigation practice.

v.2. Conveyance of water.

v.3. Irrigation structures and distribution system.

Contains bibliographies.

Comprehensive treatise on principles and practice of irrigation in the United States, dealing chiefly with design and construction of irrigation structures.

Fortier, Samuel. 626.8 F79

Use of water in irrigation. 1915. McGraw. (Agricultural engineering series.)

Brief, elementary work dealing with the use of water after it reaches the farm. Discusses extent of irrigation in the United States, and methods and equipment for irrigation of various crops.

- Newell, Frederick Haynes, & Murphy, D. W.** 626.8 N27p
Principles of irrigation engineering; arid lands, water supply, storage works, dams, canals, water rights and products. 1913. McGraw.
Broad principles and methods of practice are emphasized, minute technical details and calculations being omitted. A fairly comprehensive treatment of the subject for general readers.
- Sind, India.** qr 626.8 S61
Annual irrigation revenue report, 1905/06-1906/07.
- Smith, Richard Baird.** qr 626.8 S65
Maps and plans illustrative of the canals of irrigation in Lombardy and Piedmont [plates]. Ed.2. 1855. Blackwood.
Text wanting.
Title on cover reads "Italian irrigation; maps and plans."
- Engström, C. C.** qr 626.9 E64
Förslag till en Svea kanal. 2v. in 1. 1908-10.
- Lake Erie and Ohio River Ship Canal Association.** qr 626.9 L16
Lake Erie and Ohio river ship canal. 1911.
With this are bound, "Lake Erie and Ohio river ship canal; address of J. E. Shaw, Oct. 12, 1906" and "Lake Erie and Ohio river ship canal, May 1912."
- New York (state)—Engineer and surveyor.** r 626.9 N261
Engravings of plans, profiles and maps illustrating the standard models from which are built the important structures on the New York state canals. 1860.
Issued as a supplement to the annual report for 1859 of the state engineer and surveyor on the canals.
- New York (city)—Public library. Astor, Lenox and Tilden foundations.** qr 016.6269 N26
American interoceanic canals; a list of references in the library; comp. by J. C. Frank. 1916.
- Ohio—Public works, Board of.** r 328.771 O18
Annual report, 1909/10, 1912/13-1913/14. 1912-15. (In Ohio—General assembly. Executive documents; annual reports, 1910. pt.4, 1913, pt.1, 1914, pt.1.)
By constitutional amendment, Dec. 31, 1912, the Board of public works was abolished and the work was put under the control of the Superintendent of public works.
For report for 1908/09 see preceding catalogue, v.6.

Panama canal

- Bennett, Ira Elbert, and others, ed.** qr 626.9 B43
History of the Panama canal; its construction and builders (Builders' edition). 1915. Historical Pub. Co.
"Biographical," p.463-486.
Extensive, well illustrated work.
- Bunau-Varilla, Philippe.** 626.9 B88
Panama; the creation, destruction and resurrection. 1914. McBride.
Author is a French engineer formerly engaged in the French canal project. The choice of Panama rather than the Nicaragua route is due largely to his efforts.
- Haskin, Frederic J.** 626.9 H33
The Panama canal. 1914. Doubleday.
Interesting and instructive. Popular in style, but accurate in statement.

International Engineering Congress, San Francisco, 1915. 626.9 I24

Panama canal, an engineering treatise; a series of papers covering in full detail the technical problems involved in the construction of the Panama canal; prepared by engineers and other specialists in charge of the various branches of the work under the direction of G. W. Goethals. 2v. 1916. McGraw.

Johnson, Emory Richard. qr 626.9 J36

Measurement of vessels for the Panama canal. 1913. U. S. Government.

"Bibliographical note and list of principal works consulted," p.217-221.
Being report submitted to secretary of war, Oct. 2, 1913.

Lindsay, Charles Harcourt Ainslie Forbes- 626.9 L72a

Panama, the isthmus and the canal. Rev. ed. 1912. Winston.

Compilation which brings together much material hitherto found only in American public documents and French company reports. Gives a history of Panama from its beginning.

McKinlay, Duncan E. j 626.9 M18

Panama canal. 1912. Whitaker.

Sketches the history of the canal project from earliest times and gives a brief account of the engineering features. Illustrations from photographs.

Maps—Panama canal. (1911.) qr 626.9 M2

Aeronautical view of the Panama canal. 1911. Central Novelty Co.

Size, $4\frac{1}{4} \times 13\frac{1}{2}$ inches, in folio cover.

Relief map, with historical and descriptive facts and a profile of canal.

Marshall, Logan. 626.9 M41

Story of the Panama canal. 1913. Winston.

The greater portion of this work is taken from "Panama, the isthmus and the canal," by C. H. A. Forbes-Lindsay.

Pan American Union. 626.9 P21

Panama canal; what it is, what it means. 1913.

"Brief bibliography," p.118-120.

Very practical handbook, useful for people who are planning to visit Panama, and for schools, clubs and classes which are studying the canal. Illustrated.

Pepperman, Walter Leon. 626.9 P41

Who built the Panama canal? 1915. Dutton.

Author was chief of office of administration of the Second Isthmian Commission. This record deals mainly with events between the appointment of T. P. Shonts as chairman of the Canal Commission in 1905, and the resignation of John F. Stevens as chief engineer in 1907. To Mr Shonts in particular the author accords much of the credit for the canal, the actual construction of which he considers an engineering achievement of magnitude rather than of complexity. The plates are photogravure reproductions of Joseph Pennell's drawings of the canal.

Scott, William Rufus. 626.9 S43

The Americans in Panama. 1912. Statler.

"Panama chronology," p.5.

Concise, straightforward account in popular language of American work at Panama and of the political and constructive development of the canal. Engineering features are treated without technicalities or too great detail.

Sibert, William Luther, & Stevens, J. F. 626.9 S56

Construction of the Panama canal. 1915. Appleton.

Authoritative work by engineers, but not highly technical.

United States—Fine arts commission. r 626.9 U2531

Panama canal; message from the president of the United States, transmitting a report by the Commission of fine arts in relation to the artistic structure of the Panama canal. 1913. (63d cong. 1st sess. Senate. Doc. no.146, v.10.)

United States—Isthmian canal commission, 1899-1902. r 626.9 U25

Report, 1899-1901. v.2. 1901-02. (58th cong. 2d sess. Senate. Doc. no.222.)

Report of the examinations and studies of routes for the canal, together with historical facts and a discussion of the merits of the several routes.

———Index. 1916. (In Index to the reports of the chief of engineers, U. S. army (including the reports of the Isthmian canal commissions, 1899-1914), v.0⁴, pt.2, p.2357-2621.)qr 627 U253 v.0⁴, pt.2

For v.1 see preceding catalogue, v.4.

United States—Isthmian canal commission, 1904-14. r 626.9 U25p

Panama canal; official handbook. 1913.

United States—State department. r 626.9 U25392

Diplomatic history of the Panama canal; correspondence relating to the negotiation and application of certain treaties on the subject of the construction of an interoceanic canal, and accompanying papers. 1914. (63d cong. 2d sess. Senate. Doc. no.474, v.15.)

United States. Treaties. r 626.9 U2539

Canal treaties; executive documents presented to the United States senate, together with proceedings by the Senate relative to the Panama canal. 1914. (63d cong. 2d sess. Senate. Doc. no.456.)

Contents: Clayton-Bulwer treaty.—Hay-Pauncefote treaty.—Senate proceedings on the treaty of 1900.—Treaty of 1901.—Ratification of treaty of 1901.—Statement by Secretary Hay.—Hay-Herrán treaty (with Colombia).—Hay-Bunau-Varilla treaty (with Panama).

qr 626.905 C16

Panama canal record; published weekly under the authority and supervision of the Panama Canal, Aug. 23, 1916-date. v.10-date. 1916-date.

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r 628.1 I22

Water survey series, 1911-16. no.9-14. 1912-17.

The Water survey was created in 1897 by the trustees of the University of Illinois and became a division of the Department of chemistry. In 1911 it was reorganized by state law but is still partly supported by the university and its "Publications" are issued in the university bulletins. Beginning with no.3 the "Publications" have been called "Water survey series."

For no.1-8 see preceding catalogue, v.6.

Jackson, Daniel Dana.

r 628.1 J12

Report on the sanitary condition of the Cleveland water supply, on the probable effect of the proposed changes in sewage disposal and on the various sources of typhoid fever in Cleveland, to the Hon. Newton D. Baker, mayor, May 25, 1912. [1912.]

"Since the installation of the new four-mile intake, the water supply of Cleveland has been in a satisfactory sanitary condition at all periods of the year, with the exception of the short intervals during which the annual breaking up of the ice has occurred." *Summary, p.9.*

Komotau, Austria—Stadtrat.

qr 628.1 K373

Die wasserwerke der stadt Komotau; festschrift verfasst anlässlich der schlussteinlegung zur Kaiser Franz Joseph-talsperre vom Richard Goldmann und Ernst Landisch. Ed.2. [1905?]

- Massachusetts**—Health department. r 614.09744 M4552
 Water supply and sewerage, 1914/15–date. 1916–date. (In its Annual report, v.1–date.)
The same, 1887/88–1898/99, 1900/01–1913/14. 1889–1915. (In Massachusetts—Health board. Annual report, v.20–31, 33–46.)...r 614.09744 M45
- Municipal Water Improvement & Manufacturing Co.** r 628.1 M96
 Proposition for a supply of pure and wholesome water for the city of Allegheny, Pa.
 Proposes pumping station and filter plant at Nine Mile island.
- New Orleans Waterworks Company.** r 628.1 N2613
 [Pamphlets relating to the New Orleans Waterworks Company.] 1886–1901.
- New York (city)**—Water supply board. r 628.1 N2612a
 Annual report (5th–11th), accompanied by report of the chief engineer, 1910–16. [1911–17.]
- Parker, Philip à Morley.** 628.1 P23
 Control of water as applied to irrigation, power and town water supply purposes. 1913. Routledge.
 Comprehensive and authoritative.
 “Will in all probability rank as high in connection with applied hydraulics as Bel-lasis’s work on hydraulics does in connection with theoretical questions...Mr. Parker’s encyclopedic work is the most notable book of the kind that has appeared for many years.” *Nature*, 1913.
- Pennsylvania**—Health department. r 628.1 P399
 Report on the sanitary survey of the Allegheny river basin. 1915.
 Valuable report, with consideration of natural resources of the region and the sources of stream pollution.
- Pennsylvania**—Water supply commission. r 628.1 P39
 Report, 1910–16. 1914–17.
 For reports for 1905–09 see preceding catalogue, v.6.
- Pittsburgh**—Water bureau. r 628.1 P674
 Annual report, 1910/11–1915. 1911–[16? Pittsburgh].
The same, 1909/10–date. 1910–date. Pittsburgh. (In Pittsburgh. Annual reports of the executive departments, 1909/10–date.)...r 352 P6745
- [Reports on water supply, 1866–75.] 1866–[75].** r 628.1 R35
 Includes the report of the Cochituate water board to the city council of Boston for the year ending April 30, 1875; Report on schemes for an additional supply of pure water [for Boston], 1874; Report on the water supply for the city of Philadelphia, made by the commission of engineers appointed by the mayor, approved June 5, 1875; Annual report of the chief engineer of the water department, city of Philadelphia, presented to councils Jan. 30, 1873; Second and third reports of board of water commissioners of the city of St. Louis, submitted Nov. and Dec. 1866.
- Roberts, William Milnor.** r 628.1 R53
 Preliminary report with reference to extension of the new Pittsburgh water works. 1869. Pittsburgh.
 Report made to the Water extension committee of Pittsburgh councils.
 Compares advantages of supply by natural flow and by pumping from local rivers, favoring the latter and recommending the Allegheny as a source of supply, with intake at some point above Negley’s run.

St. Louis—Water commissioner. qr 628.1 S14
Annual report for the fiscal year ending April 1903-14.

The same, for the fiscal year ending April 1894, 1897, 1903, 1907-08, 1910-15. 1894-1915. (In St. Louis. Mayor's message, with accompanying documents, 1893/94, 1896/97, 1902/03, 1906/07-1907/08, 1909/10-1914/15.....qr 352 S14

Stadler, Rudolf. qr 628.1 S77

Die wasserversorgung der stadt Wien in ihrer vergangenheit und gegenwart; denkschrift zur eröffnng der hochquellen-wasserleitung im jahre 1873. 1873.

Taylor, F. Noel. 628.1 T25

Small water supplies; a practical treatise on the methods of collecting, storing and conveying water for domestic use in large country mansions, estates and small villages and farms. 1911. Batsford.

Similar in scope to Lynde's "Home waterworks," but does not touch on installation for domestic use.

Thresh, John Clough. 628.1 T42c

The examination of waters and water supplies. Ed.2. 1913. Blakiston.

Methods of water examination are very fully treated and many analyses are given. "Point of view is almost exclusively English, and in some respects quite old-fashioned, although it is not intended by this term to indicate that the methods are not trustworthy." *Henry Leffmann, in Journal of the Franklin Institute, 1913.*

United States—Engineers corps. r 628.1 U25w

Water supply of the District of Columbia and water power at Great Falls; letter from the secretary of war, transmitting, with a letter from the chief of engineers, report of examination on water supply of the District of Columbia and the availability of the water power at Great Falls, Potomac river, for supplying light and power for the use of the United States and the District of Columbia. 1913. (62d cong. 3d sess. House. Doc. no.1400, v.25.)

United States—Public lands committee. (House.) r 628.1 U253

Hetch Hetchy grant to San Francisco; report to accompany H. R. 7207. 1913. (63d cong. 1st sess. House. Report no.41.)

Weyrauch, Robert. 628.1 W58

Wasserversorgung der ortschaften. 1910.

"Literaturverzeichnis," p.6-7.

Wiebe, Friedrich Eduard Salomon. qr 628.1 W67

Ueber die reinigung und entwässerung der stadt Berlin [plates]. v.2. 1861.

v.1, which includes text, wanting.

Directories. Periodicals

r 628.102 M16

McGraw waterworks directory; comp. and pub. annually, 1915. 1915. McGraw Pub. Co.

American Water Works Association. r 628.105 A51

Journal [quarterly], 1914-date. v.1-date. 1914-date.

qr 628.105 I24

Internationale zeitschrift für wasser-versorgung; zeitschrift des Internationalen Verbandes der Wassersachverständigen [semimonthly]; hrsg. von G. Thiem, 1914-date. 1. jahrgang-date. 1914-date.

Reservoirs. Water flow

Maine—State water storage commission.

r 628.13 M26

Annual report (1st-4th), 1910-13. 1911-14.

This commission was superseded in 1913 by the Public utilities commission and after 1913 reports on water storage will be found incorporated in the annual report of the Public utilities commission (r 352.8 M26.)

Manufacturers' Association of Beaver County, Pa.

r 628.13 M35

Pymatuning, a conservation necessity. [Republic Bank Note Co. Pittsburgh.]

Gives facts and diagrams to show the scope and importance of proposed Pymatuning reservoir for regulating flow of Shenango river.

Pennsylvania—Water supply commission.

r 628.13 P39

Report on the feasibility of constructing a storage reservoir in Pymatuning swamp, Crawford county, Pa. [1912.]

Pymatuning swamp comprises an area of about 10,400 acres lying at the source of the Shenango river and Crooked creek in southwestern Crawford county. The commission reports favorably on the reservoir project, which has for its objects the control of floods in the Shenango and Beaver rivers, the improvement of sanitary conditions, and the production of water-power.

Coale, Howard Dorsey.

r 628.15 C62

Hydraulic data. 1913. Pacific Tank & Pipe Co.

Information on water-power and domestic water-supply. Contains exhaustive table on flow of water in wood pipes.

Purification. Filtration

Christie, William Wallace.

628.16 C46

Water; its purification and use in the industries. 1912. Van Nostrand.

Much of the material of this book appeared serially in "Industrial engineering and the engineering digest," 1910-11.

Mentions potable water, but is concerned mainly with properties, treatment and utilization of water for industrial purposes.

Hazen, Allen.

628.16 H38c2

Clean water and how to get it. Ed.2, rev. & enl. 1914. Wiley.

Designed for public officials who have had no waterworks experience and yet who are called upon to participate in the control and distribution of water supplies. Describes means now used by American cities to secure clean water and the application of these means to new problems. Also discusses such matters as general policy, engineering features, sale of water and financial management of waterworks.

International Joint Commission (United States and Canada).

r 628.16 I24p

Pollution of boundary waters; conference with sanitary engineers at New York city, May 26-27, 1914. 1914. U. S. Government.

With this is bound its "Résumé of testimony of consulting sanitary engineers in the matter of the pollution of boundary waters, May 26-27, 1914."

- International Joint Commission (United States and Canada).** qr 628.16 I24

Progress report on the reference by the United States and Canada in re the pollution of boundary waters, whether or not such pollution extends across the boundary in contravention of the treaty of Jan. 11, 1909, and if so, in what manner or by what means is it possible to prevent the same, including report of the sanitary experts. 1914.

- Kirkwood, James Pugh.** r 628.16 K28

Report on the filtration of river waters for the supply of cities, as practised in Europe, made to the Board of water commissioners of the city of St. Louis. 1869. Van Nostrand.

- Mason, William Pitt.** 628.16 M45w

Water-supply (considered principally from a sanitary standpoint). Ed.4, rewritten. 1916. Wiley.

"Treatise covering very well, in a popular way, the questions relating to the sanitation of potable waters."

- Metzger, Heinrich.** r 628.16 M64

Die technik des filterns; filter im klein- und grossbetrieb, mit besonderer berücksichtigung ihrer bedeutung für die öffentliche gesundheitspflege. 1914. (Hartleben's chemisch-technische bibliothek.)

Discusses materials, principles of filtrations and methods employed in domestic and industrial practice.

- National Association for Prevention of Pollution of Rivers and Waterways.** r 628.16 N15

Pollution of rivers and waterways; a report presented at the annual meeting of the association at Cleveland, Ohio, Oct. 23, 1912. 1913. (United States. 63d cong. 1st sess. Senate. Doc. no.235.)

Brief report of Committee on Standards of Purity for Rivers and Waterways. Committee is composed of men prominent in the field of sanitation with George C. Whipple as chairman.

- Stein, Milton Frederick.** 628.16 S81

Water purification plants and their operation. 1915. Wiley.

Instruction in practical operation of small plants treating water for either domestic or industrial use. Especially for the operator with little knowledge of chemistry.

- Tillmans, J.** 628.16 T46

Water purification and sewage disposal; tr. by H. S. Taylor. 1913. Van Nostrand.

Concise manual. Does not cover subjects fully, but treats many special industrial problems, which have received careful study in Germany.

- Witherell, F. W.** r 628.16 W82

Practical operation of rapid sand water purification plants. 1905. Stevenson. Pittsburgh.

Brief guide for the man engaged in actual plant operation, but who is without scientific training. Of slight interest to the chemist, bacteriologist, or engineer.

Sewerage

- Dempsey, George Drysdale.** r 628.2 D42

Rudimentary treatise on the drainage of towns and buildings; suggestive of sanatory regulations conducive to the health of an increasing population. Ed.3, rev. & [enl.]. 1865. Virtue.

Folwell, Amory Prescott.

r 628.2 F71a2

Sewerage; the designing, construction and maintenance of sewerage systems. Ed.7, rev. & enl. 1916. Wiley.

"It may be said that Mr. Folwell's 'Sewerage' as it now stands is the only single volume work in which all phases of sewerage design, construction and maintenance, as well as sewage treatment, are treated, and that in addition the volume deserves commendation as a comprehensive survey of the whole field indicated, brought within reasonably small compass." *Engineering news*, 1910.

Krepp, Frederick Charles.

qr 628.2 K41

The sewage question; being a general review of all systems and methods hitherto employed in various countries for draining cities and utilising sewage, also a description of Captain Liernur's system for daily inoffensive removal of faecal solids, fluids and gases by pneumatic force. 1867. Longmans.

"Principal authorities and others referred to," p.207-208.

Maps—Milwaukee. (1887.)

r 628.2 M

Map of the city of Milwaukee showing completed sewers up to Dec. 31st, 1887; G. H. Benzenberg, city engineer.

Size, 35 $\frac{3}{8}$ x 30 $\frac{3}{4}$ inches; folded in 8° cover; scale, about $\frac{3}{8}$ mile to 1 inch.

Menzies, William, deputy surveyor of Windsor forest.

qr 628.2 M62

Treatise on the sanitary management and utilisation of sewage; comprising details of a system applicable to cottages, dwelling-houses, public buildings and towns, suggestions relating to the arterial drainage of the country and the water supply of rivers. 1865. Longman.

Taylor, F. Noel.

628.2 T25

Main drainage of towns. 1912. Griffin.

Deals with details of sewer construction and ventilation, house drainage and sewage disposal.

Clay Products Publicity Bureau, Kansas City, Mo.

r 628.24 C54

Sewer specifications. 1911.

Written by reputable engineers and used with success in actual work.

Metcalf, Leonard, & Eddy, H. P.

628.24 M64

American sewerage practice. 3v. 1914-15. McGraw.

v.1. Design of sewers.

v.2. Construction of sewers.

v.3. Disposal of sewage.

"The most complete and usable treatise on practical sewer design yet published." *Journal of the Western Society of Engineers*, 1914.

Ogden, Henry Neely.

628.24 O17

Sewer design. Ed.2. 1913. Wiley.

"Valuable as a clear, up-to-date presentation of the scattered material of the subject." *Municipal engineering*, 1899.

Sewage disposal

Black, William Murray, & Phelps, E. B.

qr 628.3 B51

Report concerning the location of sewer outlets and the discharge of sewage into New York harbor, submitted to the Board of estimate and apportionment [of New York], March 23, 1911. [1911.]

Sixth and final report, summarizing preliminary reports. Discusses capacity of these waters to receive sewage without undue pollution and offers recommendations as to the standard of purity which should be maintained in the different portions of the harbor.

- Fuller, George Warren.** 628.3 F98
Sewage disposal. 1912. McGraw.
Comprehensive treatise, discussing fully chemical and engineering features and giving special attention to relation of sewage disposal to public health.
- Lemmoïn-Cannon, Henry.** 628.3 L58
Textbook on sewage disposal in the United Kingdom, with a foreword by Sir Alexander Stenning. 1912. St. Bride's Press.
Considers sources and nature of sewage, sewerage systems, and methods of sewage disposal. Largely descriptive.
- Marston, Anson, & Okey, F. M.** r 628.3 M42
Sewage disposal plants for private houses. 1909. (Iowa State College of Agriculture and the Mechanic Arts—Engineering experiment station. Bulletin, no.24.)
Result of investigation extending over five years and embodying operation of several experimental plants.
- Massachusetts Institute of Technology.** r 628.3 M45
Contributions from the Sanitary research laboratory and sewage experiment station. v.9. 1914.
Papers reprinted from various sources.
For v.2-8 see preceding catalogue, v.6.
- New York (city)—Metropolitan sewerage commission.** qr 628.3 N261m
Main drainage and sewage disposal works proposed for New York city, reports of experts and data relating to the harbor; report, April 30, 1914. [1914.]
"Reports of the Metropolitan sewerage commission," p.761-762.
Summary of work since 1906, with plans, recommended by the commission, for sewage disposal and harbor protection. Gives examples of work in many other large cities.
- New York (city)—Metropolitan sewerage commission.** qr 628.3 N261pr
Preliminary reports on the disposal of New York's sewage, Sept. 1911-March 1914. no.1-16. 1911-14.
Issued irregularly.
No.3 wanting.
- New York (city)—Metropolitan sewerage commission.** qr 628.3 N261p
Present sanitary condition of New York harbor and the degree of cleanness which is necessary and sufficient for the water; report, Aug. 1, 1912. [1912.]
Deals in detail with sanitary condition during 1910-1911, and gives reports of experts, with regard to standards of cleanness for the harbor.
- New York (city)—Metropolitan sewerage commission.** qr 628.3 N261m2
Supplementary report on the disposal of New York's sewage; critical report of the New York sewer plan commission on the plans of main drainage and sewage disposal proposed for New York by the Metropolitan sewerage commission, and reply thereto, June 30, 1914. [1914.]
- Ogden, Henry Neely, & Cleveland, H. B.** 628.3 O17
Practical methods of sewage disposal for residences, hotels and institutions. 1912. Wiley.
Useful information on construction and operation of apparatus for preliminary treatment, sewage filters and broad irrigation. Chapter on cost estimates.

Pennsylvania—Agriculture, Department of. r 628.3 P39
Sewage disposal for country homes; prepared by J. K. Foulke. 1914.
(Farm adviser's reading course, no.1.)

Philadelphia—Surveys bureau. r 628.3 P49r
Report on the collection and treatment of the sewage of the city of Philadelphia, 1914. [1914.]
Progress report dealing only with an investigation of sewage treatment.

Soper, George Albert, and others. r 628.3 S71
Report to the Chicago Real Estate Board on the disposal of the sewage and protection of the water supply of Chicago, Illinois. 1915.
628.348 S51

Sewage sludge, by Alexander Elsner and others. 1912. McGraw.
Contents: Treatment and utilization of sludge, by Alexander Elsner.—The drying of sludge, by Fr. Spillner; tr. by Kenneth and R. S. Allen.—Operation of mechanical sewage plants, by Fr. Spillner and Mr Blunk; tr. by Emil Kuichling.—Sludge treatment in the United States, by Kenneth Allen.
Record of painstaking observation and investigation of disposal plants, chiefly in Europe.

Municipal sanitation. Refuse disposal Bibliography

Chicago—Public library. qr 016.6284 C43
List of references on clean up and paint up campaigns, in the Municipal reference library, Chicago Public Library. [1916.]
Type-written copy.

General works

Akron, Ohio, Sewage Testing Station. r 628.4 A31
Report to the director of public service, on sewage treatment and trade wastes, by H. B. Hommon, Oct. 10, 1912. 1912.

Chicago—City waste commission. r 628.4 C43
Chicago city waste commission, created by order of the city council to make a comprehensive study of and report on the subject of the collection, delivery and disposal of garbage and waste. [1914.]

Matthews, Ernest Romney. 628.49 M47
Refuse disposal; a practical manual for municipal engineers, members of local authorities, &c. 1915. Griffin. (Griffin's scientific textbooks.)
Descriptive and very brief.

Goodrich, Walter Francis. 628.492 G62
Modern destructor practice. 1912. Griffin.
Succeeds his "Refuse disposal and power production." Authoritative and valuable exposition of the British refuse destructor, showing its development and wide-spread adoption. Gives considerable space to American practice in disposal both by incineration and by the reduction process.

Industrial sanitation

Price, George Moses.

628.51 P94

The modern factory; safety, sanitation and welfare. 1914. Wiley.

Contents: The factory, its rise, growth and influence.—The workplace.—Factory fires and their prevention.—Factory accidents and safety.—Light and illumination in factories.—Factory sanitation.—Employers' welfare work.—Air and ventilation in factories.—Industrial dusts and dusty trades.—Industrial poisons, gases and fumes.—Factory legislation.—Factory inspection.

"A selected bibliography for those wishing to make a further study of some of the topics treated," p.553-554.

Restricted to factory hygiene. Several of the special chapters have been revised by experts.

Smoke abatement

Bibliography

McClelland, Ellwood Hunter, *comp.*

r 016.62853 M13

Bibliography of smoke and smoke prevention. 1913. Pittsburgh. (Pittsburgh University—Mellon institute of industrial research and school of specific industries. Smoke investigation; bulletin no.2.)

The same. (In Pittsburgh University—Mellon institute of industrial research and school of specific industries. Smoke investigation; bulletin no.2.)..... r 628.53 P67 no.2

General works

Ascher, Louis.

r 628.53 A81

Der einfluss des rauches auf die atmungsorgane; eine sozial-hygienische untersuchung für mediziner, nationalökonomien, gewerbe- und verwaltungsbeamte, sowie für feuerungstechniker. 1905.

"Literatur," p.38.

Numerous statistics, based mainly on conditions in Germany.

Benjamin, Charles Henry.

r 620.5 P98 v.1, no.2

Smoke abatement. 1915. (In Purdue University. Publications of the engineering departments, v.1, no.2.)

Buchholz, M.

r 628.53 B84

Beitrag zur rauch- und russplage. 1910. (Sammlung berg- und hüttenmännischer abhandlungen.)

Reprinted from "Berg- und hüttenmännischen rundschau."

Pamphlet, considering causes of smoke and preventive measures.

Chicago—Smoke inspection department.

r 628.53 C43

Report (1st) [Oct. 1907-10]. 1911.

History, organization and policy, with a discussion of economic problems and of the chief industrial sources of smoke.

Chicago Association of Commerce.

qr 628.53 C432

Smoke abatement and electrification of railway terminals in Chicago; report of the Committee of investigation on smoke abatement and electrification of railway terminals, W. F. M. Goss, chief engineer. 1915.

"Bibliography," p.1147-1159.

Summarizes results of an inquiry into the feasibility of electrifying the steam roads entering Chicago. Finds that electrification is an engineering possibility, but is impracticable by reason of the enormous cost. Report is based on a thorough investigation, and is the most comprehensive treatise on smoke abatement ever published (1916).

Chubb, Lawrence W. r 628.53 C46

"Smoke abatement;" being a paper read before the Institute of Sanitary Engineers on Jan. 22, 1912, together with a report of the discussion thereon. Coal Smoke Abatement Soc.

Cincinnati, Smoke Abatement League. r 628.53 C48

Annual report, 1909-16.

Report for 1909 is type-written.

Coal Smoke Abatement Society. qr 628.53 C62ad

Addresses, papers and discussions at Conference on Smoke Abatement, London, Dec. 12-15th, 1905; arranged by the Royal Sanitary Institute and the Coal Smoke Abatement Society. [1906.]

Coal Smoke Abatement Society. r 628.53 C62

Annual report (2d-13th), balance sheet and list of subscribers, 1900-11. [1901-12.]

For report for 1899 see preceding catalogue, v.1.

Coal Smoke Abatement Society. r 628.53 C62p

Papers read at the smoke abatement conferences [held in connection with the International Smoke Abatement Exhibition, London], March 26-28, 1912, with discussions.

Cohen, Julius Berend, & Ruston, A. G. 628.53 C66

Smoke; a study of town air. 1912. Arnold.

Confined almost wholly to the collection of data on results of the imperfect combustion of coal. Studies the composition and amounts of impurities in air and considers effect of different impurities on vegetation, intensity of sunlight and public health in general. Investigations were made mainly at Lee^{ch}, England, on atmospheric conditions of a manufacturing town.

Derby, George. r 628.53 D44

Inquiry into the influence of anthracite fires upon health, with remarks upon artificial moisture and the best modes of warming houses. Ed.2, enl. 1868. Williams.

Binder's title reads "Anthracite and health."

Concerned with supposedly injurious effects of anthracite coal as a domestic fuel, especially when burned in cast iron stoves. Recommends stoves of porcelain or of wrought iron so tightly closed that the "poisonous product of imperfect combustion" cannot escape.

International Association for the Prevention of Smoke. r 628.53 I24

Annual convention (9th), Sept. 9-11, 1914, Grand Rapids, Mich. [1914.]

Milwaukee—Smoke inspector. r 628.53 M72

Annual report (2d-5th), 1911-14.

O'Connor, John Joseph. qr 628.53 O13

History of the smoke nuisance and of smoke abatement in Pittsburgh. 1913. Pittsburgh.

Reprinted from "Industrial world," v.92, March 24, 1913.

"Bibliography," p.4.

Pittsburgh—Smoke regulation bureau. r 628.53 P674

City of Pittsburgh; hand book of Bureau of smoke regulation for 1915-16. [1915-16. Pittsburgh.]

Pittsburgh University—Mellon institute of industrial research and school of specific industries. r 628.53 P67

Smoke investigation; bulletin. no.1-9. 1912-14.

no.1. Outline of the smoke investigations.

no.2. Bibliography of smoke and smoke prevention; comp. by E. H. McClelland.

no.3. Psychological aspects of the problem of atmospheric smoke pollution, by J. E.

W. Wallin.

no.4. The economic cost of the smoke nuisance to Pittsburgh, by J. J. O'Connor.

no.5. The meteorological aspect of the smoke problem, by H. H. Kimball.

no.6. Papers on the effect of smoke on building materials; ed. by R. C. Benner.

no.7. The effect of the soot in smoke on vegetation, by J. F. Clevenger.

no.8. Some engineering phases of Pittsburgh's smoke problem.

no.9. Papers on the influence of smoke on health; ed. by Oskar Klotz and W. C.

White.

Name of department was changed in 1913 from Industrial research department to Mellon institute of industrial research and school of specific industries.

Rochester, N. Y. Chamber of Commerce. r 628.53 R57

The smoke shroud; how to banish it; pub. by the smoke abatement committee of the Rochester Chamber of Commerce.

"Smoke abatement literature," p.22.

qr 628.53 S433

Scrap-book of clippings relating to smoke abatement. [3v.]

Collected in connection with smoke investigation, by the Mellon Institute of Industrial Research and School of Specific Industries, of the University of Pittsburgh. Arranged alphabetically by cities.

Searle, Joseph M. r 628.53 S43

Coal smoke and its practical abatement; a paper read before the Engineers' Society of Western Pennsylvania, June 18, 1912. [Pittsburgh.]

Printed by the Department of public health of Pittsburgh.

Seine, Département de la—Préfecture. qr 628.53 S46c

Compte rendu, 1906-07.

With this are bound "Ordonnance interdisant, dans Paris, les fumées noires, épaisses et prolongées," and "Note sur l'emploi du coke dans les usines du service des eaux, d'octobre 1910 à octobre 1911."

Sheffield Federated Health Association, pub. r 628.53 S666

Smoke abatement; papers read at the smoke abatement conferences at Sheffield, March 1909, with an address delivered by Sir Oliver Lodge at the opening of the exhibition. [1909.]

Smoke Abatement League of Great Britain. r 628.53 S66

Proceedings of conference held at Manchester, Nov. 21-22, 1911.

[Willard, Zabdiel A.] r 628.53 W73r

Report on the smoke nuisance. [1907.] Privately printed.

With this are bound his "Final report on the smoke nuisance, 1912," and "Smoke nuisance and health."

Willard, Zabdiel A. r 628.53 W73

Smoke nuisance in Europe and America; its menace and its cure. [1909.] Privately printed.

"Authorities," p.47-48.

Wislicenus, Hans Johannes Adolph, ed. r 628.53 W81

Sammlung von abhandlungen über abgase und rauchschäden. pt.1-10. 1908-14.

qr 628.5305 R22

Rauch und staub; zeitschrift für ihre bekämpfung; monatlich, Oct. 1910-date. v.1-date. 1910-date.

Disposal of industrial wastes

Garner, J. H.

q 628.54 G18

Treatment of effluents from dyehouses and textile factories. Soc. of Dyers and Colourists.

Reprinted from the "Journal of the Society of Dyers and Colourists," v.28, Feb.-May 1912.

Description of the more efficient processes in use at the present time (1912).

Wilson, H. Maclean, & Calvert, H. T.

628.54 W76

Text-book on trade waste waters; their nature and disposal. 1913. Griffin.

"Bibliography" at the end of each chapter.

Takes up different industries separately, with consideration of the waste waters and of possibilities for purification and recovery of by-products. Describes in some detail the apparatus for purification. Applies almost wholly to English conditions and practice.

House sanitation

Bayles, James Copper.

r 628.6 B33

House drainage and water service in cities, villages and rural neighborhoods, with incidental consideration of causes affecting the healthfulness of dwellings. [Ed.5.] 1884. Williams.

Ventilation

Carnegie Library of Pittsburgh.

r 016.6288 C21

Air conditioning; references to books and magazine articles. 1914. Pittsburgh.

Reprinted from the "Monthly bulletin," Nov. 1914.

Ruttan, Henry.

qr 628.8 R94

Ventilation and warming of buildings, to which is added a complete description and illustration of the ventilation of railway carriages for both winter and summer. 1862. Putnam.

Lander, Cecil Howard.

628.853 L21

Ventilation and humidity in textile mills and factories. 1914. Longmans.

Discusses principles and practice of securing the humidification essential in all branches of the textile industry, and especially in weaving.

Illumination

Atkinson, William.

628.9 A87

Orientation of buildings; or, Planning for sunlight. 1912. Wiley.

Gives particular attention to the planning of hospitals and to town planning, with respect to the influence of street directions and the height of buildings. Includes valuable shadow curves, showing amount of sunlight received at different hours of the day at different seasons of the year.

- Bloch, Leopold.** r 628.9 B55
Grundzüge der beleuchtungstechnik. 1907.
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Science of illumination; an outline of the principles of artificial lighting; tr. by W. C. Clinton. 1912. Murray.
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- Blok, Arthur.** 628.9 B557
Elementary principles of illumination and artificial lighting. 1914.
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 Non-technical work on illumination. Useful in tracing history prior to 1886. Discusses materials and methods in use at that time, considering candles, oil, gas and electric light.
- Gaster, Leon, & Dow, J. S.** 628.9 G22
Modern illuminants and illuminating engineering. 1915. Macmillan.
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Light; its use and misuse; a primer of illumination prepared under the direction of the Illuminating Engineering Society. 1912.
 Pamphlet dealing with hygienic and physiological aspects of illumination.
- Lux, Heinrich, ed.** qr 628.9 L98
Die öffentliche beleuchtung von Berlin; eine geschichtliche, technische und wirtschaftliche darstellung des öffentlichen beleuchtungswesens in Berlin sowie des beleuchtungseffectes auf den Berliner strassen; auf grund officiellen materials hrsg. von H. Lux. 1896.
 History and full description of lighting system of Berlin at that time. Includes gas, electric and some minor methods of illumination.
- Macbeth-Evans Glass Company, Pittsburgh.** 628.9 M12
Scientific illumination; good light as an asset, how to get it at right cost. 1911. Pittsburgh.
The same. r 628.9 M12
 Trade literature issued under supervision of a staff of expert illuminating engineers. Concise, non-technical presentation of the more important features of modern illuminating practice. Special attention to electric lighting.

Maréchal, Henri. qr 628.9 M37

L'éclairage à Paris; étude technique des divers modes d'éclairage employés à Paris, gaz, électricité, pétrole, huile, etc. 1894.

Exhaustive account of development and condition (1894) of the illuminating companies and lighting equipment of Paris. The more technical parts deal with lighting of streets, parks and grounds, public and private buildings.

Massachusetts—Gas and electric light commissioners, r 628.9 M45
Board of.

Annual report (13th) for the year 1897, including tables from the annual returns for the year ending June 30, 1897. 1898.

For reports for 1903—date see preceding catalogue, v.6.

Westinghouse Lamp Co. r 628.9 W56

Lighting dictionary. (Salesmen's lamp handbook series, no.2.)

Periodicals

r 628.905 I2263

Illuminating engineer [London; monthly], 1913—date. v.6—date. 1913—date.

Illuminating Engineering Society. r 628.905 I2262

Transactions, 1909—date. v.4—date. 1909—date.

Published monthly except in July, August and September.

qr 628.905 L69

Lighting journal [monthly], 1913—Feb. 1917. v.1—v.5, no.2. 1913—17.

No more published.

qr 628.905 S12

Safety heating and lighting news [monthly], Nov. 1911—March 1916.

v.2—v.4, no.10. 1911—16.

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Automobiles; selected list of books. 1916.

The same. 1913.....r 016.6291 D48

List of books in English. Includes motor cycles.

General works

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Notes on the materials of motor-car construction; an account of modern metallurgical science applied to automobile engineering, including detailed descriptions of the principal processes involved in the production and testing of iron and steel, with a collection of micrographs and charts graphically illustrating the influence of heat treatment on metals. 1912. St. Martin's Pub. Co.

Confined pretty closely to treatment and properties of metals, and based on study of methods in a single British factory. Within these limitations it is a fairly useful book.

Booth, Charles Edwin, (*pseud.* Gideon Harris), and others. 629.1 B63

Audel's answers on automobiles for owners, operators, repairmen, including chapters on the storage battery, electric vehicles, motor cycles, overhauling the car, etc., by Gideon Harris and associates. 1912. Audel.

Confined to practical operation and repair. Non-technical and fairly concise.

Brookes, Leonard Elliott. 629.1 B77a

Automobile handbook; a manual of practical information for automobile owners, repair men and schools; revised and enlarged by H. P. Manly. [Ed.5], rev. & enl. 1916. Drake.

Butler, H. J. 629.1 B97

Motor bodies and chassis; a text-book dealing with the complete car, for the use of owners, students and others. 1912. Harper.

Deals with construction of entire car, but gives special attention to design, construction and decoration of car bodies, and preservation of the car.

Clark, A. Graham. 629.1 C51

Text book on motor car engineering. v.1. 1911. Van Nostrand.

v.1. Construction.

Considers details of construction of chassis, engine and auxiliary equipment. Deals with gas-engine and fuels, and considers briefly steam and electric cars.

Duryea, Charles E. & Homans, J. E. 629.1 D94

Automobile book; a practical treatise on the construction, operation and care of motor cars propelled by gasoline engines, with full explanations of all the essential parts. 1916. Sturgis.

Descriptive and non-technical. Deals chiefly with the gas-engine, and briefly with history, construction and operation of the automobile.

Engineering Standards Committee. qr 629.1 E64

British standard specifications for wrought steels for automobiles. 1916. (Report no.75.)

Fay, Thomas James. 629.1 F29

How to buy an automobile. 1914. Motor Press Syndicate.

Devoted in part to advertising the Rockefeller sleeve-valve type of engine, and in part to a consideration of certain features of automobile construction, lubrication, etc., and enumeration of points well worth the attention of the prospective purchaser. Contains some very helpful information.

Hall, Morris Albert. 629.1 H17

Care and operation of automobiles; a handbook on driving, road troubles and home repairs. 1912. Amer. School of Correspondence.

Simple and practical. Includes arrangement and construction of garages.

Pagé, Victor Wilfred. 629.1 P14au

Automobile repairing made easy; shop methods, equipment, processes, a complete treatise explaining approved methods of repairing all parts of all types of gasoline automobiles. 1916. Henley.

Pagé, Victor Wilfred. 629.1 P14

Questions and answers relating to modern automobile design, construction, driving and repair; a self-instructor for students, mechanics and motorists. 1914. Henley.

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Pennsylvania—State highway department. r 629.1 P391

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Scientific determination of the merits of automobiles; reports 1–10 of the laboratory for motor-cars at the Royal Technical University, Berlin-Charlottenburg. [1914.] General Oil Pub. Co.

Summary of tests and observations which form the beginning of a serious investigation of the fundamental principles of motor vehicles, especially with regard to economy of power.

These results are an outgrowth of the careful official testing of motor vehicles in Berlin, where "all public vehicles must undergo a test once a year, and practically every type of motor vehicles made is running...and up to the present [1914?] upwards of 8,000 vehicles have been tested." *Preface.*

Sloss, Robert Thompson. 629.1 S63

The automobile; its selection, care and use. 1910. Outing.

"Trouble chart," p.189–194.

Informal and non-technical guide for the buyer, owner and operator.

Stevenson, James Henry, & Brookes, L. E. 629.1 S84

Standard American gas and oil engine, automobile and farm engine guide; a complete encyclopedia of the construction and operation of gas and oil engines. 1913. Sears.

Consists of three practical handbooks, each complete in itself and with separate pagination. The "Automobile handbook" which forms the greater part of the volume is poorly arranged for reference; the "Gas and oil engine handbook" is a brief guide to operation of internal combustion engines; and the "Young engineers' guide" is made up of descriptions of and rules for operating steam engines, gasoline engines and threshing machinery.

Wimperis, Harry Egerton. 629.1 W77

Principles of the application of power to road transport (a series of six lectures delivered at the Technical college, Finsbury). 1913. Constable.

Clear and interesting exposition of the mechanical problems involved in efficient adaptation of power to transportation on ordinary roads. Considers the various types of motors and the vehicles on which they are used.

Directories. Periodicals

r 629.102 M94

Motor cycle, motor boat and automobile trade directory; quarterly, Oct. 1911. 1911.

Electric Vehicle Association of America. qr 629.105 E44

Annual convention (2d–4th); papers, reports and discussions, 1911–13.

Special equipment

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Starting, lighting and ignition systems; a complete exposition explaining all forms of electrical ignition systems used with internal

Pagé, Victor Wilfred—*continued.*

629.11 P14

combustion engines of all types, also includes a comprehensive series of instructions pertaining to starting and lighting systems of automobiles. 1916. Henley.

Also published under the title "Automobile starting, lighting, and ignition."

As non-technical as possible. Numerous illustrations varying in quality.

Engineering Standards Committee.

qr 629.11012 E64

Report on British standard solid tyre rim diameters for automobiles. 1915. (British standard sections no.71.)

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r 629.11012 S54

Leaf springs; their characteristics and methods of specification; a hand-book of useful information relating to automobile leaf springs, their manufacture, methods of specification, details and characteristics, together with a glossary of terms used in the art; ed. by David Landau. 1912.

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Engineering Standards Committee.

qr 629.11018 E64

Report on British standard tungsten filament glow lamps (vacuum type) for automobiles. 1915. (British standard sections no.69.)

Civil service chronicle.

q 629.1127 C49

Fire department motor apparatus; description and equipment of every type of motor apparatus in the New York fire department, official instruction of the New York fire department. 1916.

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Heldt, Peter Martin.

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Gasoline automobile; its design and construction. v.1. 1911. Horseless Age Co.

v.1. The gasoline motor.

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Hobbs, George William, & Elliott, B. G.

629.1135 H64

The gasoline automobile; prepared in the Extension division of the University of Wisconsin. 1915. McGraw. (Engineering education series.)

Brief manual dealing with construction and operation. Has chapters on fuels and on troubles and remedies.

Lougheed, Victor, & Hall, M. A.

629.1135 L92

Gasoline automobile; a practical discussion of the development and present status of the automobile. 1912. Amer. School of Correspondence.

Treatment is clear, and material well chosen.

Pagé, Victor Wilfred.

629.1135 P14a3

Modern gasoline automobile, its design, construction, maintenance and repair; a practical, comprehensive treatise explaining all principles

- Pagé, Victor Wilfred**—*continued*. 629.1135 P14a3
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 Comprehensive book, in non-technical language. Explains principles and describes
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 Practical manual of operation, care and maintenance.
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 "Simple, practical handbook of motor-boating which...not only explains the de-
 tails of the mechanism, installation, and operation of motors, tanks, carbureters, etc.,
 but also sets forth the various chances for trouble, and the difficulties which may be
 encountered, and shows how they are to be avoided or overcome." *Preface*.
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630 B16h

The holy earth. 1915. Scribner.

"A plea for reverence towards the earth as the mother of all things, and for a more intimate relation with her on the part of the many...There is something clear, high and noble about this little volume, a quality of thought and of phrase that distinguishes it as sharply from the hard and sapless character of official scientific writing on the one hand as from the lax and conscious character of official literary writing on the other." *Nation*, 1916.

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Outlines of modern farming. Ed.5-6. v.1, 5. 1885-86. Lockwood.

v.1. Soils, manures and crops.

v.5. Utilization of town sewage, irrigation, reclamation of waste land.

Carney, Mabel.

630 C21

Country life and the country school; a study of the agencies of rural progress and of the social relationship of the school to the country community. 1912. Row.

Contains bibliographies.

Considers country life as influenced by the home, the country church, the grange, farmers' institutes, and, particularly by the school. Advocates consolidation of schools and centralization of community life at the school.

Chamberlain, James Franklin.

j 630 C35

How we are fed; a geographical reader. 1912. Macmillan. (Home and world series.)

Partial contents: Story of a loaf of bread.—How our meat is supplied.—The fishing industry.—A rice field.—How sugar is made.—Where salt comes from.—On a coffee plantation.—The tea gardens of China.—A cranberry bog.—The coconut islands of the Pacific.—How dates grow.—A visit to a vineyard.—Chestnuts.—A bag of peanuts.

Clute, Willard Nelson.

630 C62

Agronomy; a course in practical gardening for high schools. 1913.

Ginn.

Contents: A lesson in chemistry.—Origin of the soil.—Types of soils.—Conditions affecting soil fertility.—The organization of the plant.—The elements needed by plants.—Fertilizers.—The plant in relation to temperature, light and moisture.—Garden making.—Tillage.—Forcing and retarding plants.—Weeds.—Propagation.—Decorative planting.—Pruning.—Plant diseases.—Insect pests.—Plant breeding.—The origin of species.—Our cultivated plants.

"References" at end of most of the chapters.

Intended mainly for agricultural instruction in city schools. Limited to plant production. Applies to lawns and gardens to the exclusion of field crops.

Coburn, Foster Dwight, comp.

630 C63

Uncle Sam's farm book; information gathered from the writings of the experts of the U. S. agricultural department. 1911. News Corporation.

Contents: Corn cultivation.—Good seed corn.—Food value of corn.—Barnyard manure.—Wheat culture.—Potato culture.—The culture of tobacco.—Pig management.—Hog cholera.—Poultry management.—Turkeys.—Ducks.—Breeds of dairy cattle.—The dairy herd.—Alfalfa.—Bees.—The split log drag.

Crow, Mrs Martha (Foote).

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"Author has studied rural conditions in all parts of the country and writes of those phases of farm life that particularly affect the girl. She sees both sides of the picture and shows the opportunities and privileges which the country girl enjoys, also the disadvantages and drawbacks, pointing out the influences that impel the girl, like the boy, from farm to city." *Book review digest*, 1915.

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Letter of transmittal.
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Contents: Essentials of success.—Means of acquiring land.—Farm organization.—Opportunities in agriculture.—Where to locate.—Size of farm.—Selection of farm.—The farm scheme.—The rotation of crops.—The equipment.—How to estimate profits.—Grain and hay farming.—The cost of farming operations.—The place of intensive farming.—Reasons for animal husbandry.—Returns from animals.—Farm labor.—Shipping.—Marketing.—Laws affecting land and labor.—Rural legislation.—Rural forces.
- Hunt, Thomas Forsyth, & Burkett, C. W.** 630 H94s
Soils and crops; with soils treated in reference to crop production. 1913. Judd.
Brief course for pupils between 14 and 18 years of age. Partly general instruction and partly discussion of specific crops, diseases, and weed and insect enemies.
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Traces in some detail experiences of the author, a former newspaper reporter, who when past middle age, found improved health, happiness and some degree of financial success in small-scale farming.
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- Miller, Mrs Mary (Rogers).** 630 M69
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Contents: The best ways of earning money.—Harvesting nature's crops.—Raising domestic animals.—Raising animals for pets.—Work and play with trained animals.—Making brooks and springs useful.—Keeping bees.—Raising silkworms.—Making collections.—Odd jobs.—Making the country a better place to live in.—Free printed matter, how to get it.
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Popular descriptive information regarding plants of economic importance. Discusses origin of many cultivated varieties.

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Circular, no.1. 1916.

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For the average reader of average means. Author attempts to present the dangers and difficulties as well as the advantages and successes of the back-to-the-land movement, and wisely cautions against the ill-advised ventures of those with no natural aptitude for rural life and work. He offers a word of warning in regard to the abundant literature, official and unofficial, which chronicles only the successes and suppresses the failures. Believes that the main hope of the future farmer lies in the adoption of scientific methods, and that, in the case of those above middle-age, the city bred man has advantages equal if not superior to those of the man whose early years were spent in the country under conditions now obsolete.

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Handbook for farmers and dairymen [comp.] with the assistance of well-known specialists. Ed.6, rev. 1914. Wiley.

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Concise encyclopedia compiled from many sources. Contains an immense amount of statistical data relating to agriculture and allied subjects.

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Charlottesville, Va.

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The same (no.2-5, 11-17), 1910-13. 1910-13. (In Michigan—Agriculture, State board of. Annual report, 1909/10-1912/13.) . . . r 630.6 M66a
- Michigan**—Agriculture, State board of. r 630.6 M66a
 Annual report (11th-13th, 18th, 23d-24th, 26th-31st, 37th-38th, 51st-date) of the secretary, 1872-74, 1878/79, 1883/84-1884/85, 1886/87-1891/92, 1897/98-1898/99, 1911/12-date. 1873-date.
 ———General index, v.1-27, 1862-88 (including Michigan State Agricultural Society. Transactions, 1849-59).
 For reports for 1909/10-1910/11 see preceding catalogue, v.6.
- Missouri**—Agricultural experiment station, Columbia. r 630.6 M743r
 Research bulletin, Feb 1913-date. no.6-date. 1913-date.
 For no.1-5 see preceding catalogue, v.6.
- Missouri University.** r 630.6 M7433
 Partial bibliography and index of the publications of the College of agriculture and the Agricultural experiment station. 1912. (Bulletin; library series, v.2, no.1.)
- Montana**—Agricultural experiment station, Bozeman. r 630.6 M84
 Annual report (18th-25th), 1910/11-1915/16. 1912-17.
 For earlier reports see preceding catalogue, v.6.
- Montana**—Agricultural experiment station, Bozeman. r 630.6 M84c
 Circular. no.1-date. 1908-date.
 Circular no.40 is a joint publication of the Montana and North Dakota Experiment stations and is published simultaneously as North Dakota Experiment station, Circular no.1 and Montana Experiment station, Circular no.40.
- Nebraska**—Agricultural experiment station, Lincoln. r 630.6 N188
 Research bulletin, March 1913-date. no.1-date. 1913-date.
- Nevada**—Agricultural experiment station, Reno. r 630.6 N25an
 Annual report of the board of control for the fiscal year ending June 30, 1911-16. 1912-17.
- New Jersey**—Agricultural experiment stations, r 630.6 N2614b
 New Brunswick.
 Bulletin, May 1880-Jan. 1881. no.1-10. 1916.
 For no. 39-date see preceding catalogue, v.6.
- New Jersey**—Agricultural experiment stations, r 630.6 N2614c
 New Brunswick.
 Circular. no.7, 15-16, 21-date. 1912-date.

New York (state)—Agriculture, Department of. r 630.6 N2617
Annual report of the commissioner (1st-8th, 15th-20th), 1892/93-1899/1900, 1907/08-1911/12. 1894-1913.

Monographs which are numbered parts of reports are catalogued separately.
Parts of certain reports wanting.

New York (state)—Agriculture, Department of. r 630.6 N2617b
Bulletin. no.12-89. 1909-16.

No.13-17, 19-25, 27-28, 30-31, 34, 36-37, 39-40, 44, pt.1, 59, 61, 62, pt.2, 67, 69 wanting.

Issued monthly after no.25, July 1911.

The same. no.9-10, 14-39. 1909-13. (In its Annual report, v.16, pt.1, v.18, pt.1, v.19, pt.2, v.20, pt.2-3.) r 630.6 N2617

New York (state)—Agriculture, Department of. r 630.6 N2617h
Horticultural bulletin. no.2. 1909.

no.2. Emergency bulletin on the blister rust of pines and the European currant rust.

With this is bound its "Circular 33: Provisions of the agricultural law relating to turpentine, linseed or flaxseed oil, 1911."

New York State Agricultural Society. r 630.6 N2618
Annual report (1st-58th, 70th-76th), 1841-98, 1910-16. 1842-1916.

1st-46th report, 1841-86, title reads "Transactions," v.1-34.

24th report, 1864, 47th-50th report, 1887-90, 56th-57th report, 1896-97, wanting.

70th-72d report, 1910-12, will be found in the Annual report of the New York (state) department of agriculture, v.18, pt.1, v.19, pt.2, v.20, pt.3 (r 630.6 N2617).

73d-76th report, 1913-16, will be found in the Bulletin of the New York (state) department of agriculture, no.47, 60, 71, 81 (r 630.6 N2617b).

North Dakota—Agricultural experiment station, Fargo. r 630.6 N454c
Circular. no.1-date. 1914-date.

Circular no.1 is a joint publication of the Montana and North Dakota experiment stations and is published simultaneously as North Dakota experiment station, Circular no.1 and Montana experiment station, Circular no.40.

Ohio—Agricultural experiment station, Wooster. r 630.6 O183c
Circular, 1910-date. no.97-date. 1910-date.

Ohio—Agricultural experiment station, Wooster. r 630.6 O183b
Technical series bulletin. no.5-8. 1914-15.

No.5 has been catalogued separately (r 615.73916 F75).

Ohio—Agriculture, State board of. r 630.6 O18

Annual report (64th, 66th-68th) for the year 1909, 1911-13, with an abstract of the proceedings of the county agricultural societies. 1910-14.

For earlier reports see preceding catalogue, v.1, 6.

Oklahoma—Agricultural experiment station, Stillwater. r 630.6 O22an
Annual report (8th, 10th-17th, 19th-22d), 1898/99, 1900/01-1907/08, 1909/10-1911/13.

Report (8th), for 1898/99 contains list of bulletins issued Dec. 1891-June 1899.

Oregon—Agricultural experiment station, Corvallis. r 630.6 O28b
[Biennial] report, 1889, 1891, 1896-99, 1912/14. [1889-1914.]

1st-11th reports title reads "Annual report."

No reports were published between 1906 and 1912/14.

- Pennsylvania**—Agricultural experiment station, State College. r 378.7 P39a
 Annual report, 1887-1914/15. 1888-1916. (In Pennsylvania State College. Annual report, 1887-1914/15.)
- Pennsylvania**—Zoology division. qr 630.6 P3993
 Circular. no.21-30, 37. 1915.
 No.1-20, 31-36 are working forms of the division.
 No.28 is type-written copy.
- Rhode Island**—Agricultural experiment station, Kingston. r 630.6 R38
 Annual report (25th), 1911/12. 1913.
 Issued as pt.2 of the Annual report of the Rhode Island College of Agriculture and Mechanic Arts.
 For earlier reports see preceding catalogue, v.6.
- Society for the Promotion of Agricultural Science.** r 630.6 S67
 Proceedings of the annual meeting (1st-37th), 1880-1916. 1883-1917.
 —Index, v.1-16, 1880-99. (In Proceedings, v.20, p.116-134.)
- South Dakota**—Agricultural experiment station, Brookings. r 630.6 S726
 Annual report, 1910/11-1915/16,
 For earlier reports see preceding catalogue, v.6.
- South Dakota**—Agricultural experiment station, Brookings. r 630.6 S726b
 Bulletin; index, no.1-163, 1887-Jan. 1916.
 For numbers of bulletin see preceding catalogue, v.6.
- Texas**—Agricultural experiment station, College Station. r 630.6 T32a
 Annual report (4th, 9th-13th, 25th-29th), 1891, 1896-1900/01, 1911/12-1915/16. 1891-[1916].
 Covers also the work of the sub-stations.
 15th-24th reports have never been printed.
- Texas**—Agriculture, Department of. r 630.6 T329
 Bulletin; bimonthly, July 1912-Oct. 1913, March-April 1914. no.26-33, 36. 1912-14.
 For earlier numbers see preceding catalogue, v.6.
- Tuskegee Institute**—Agricultural experiment station. r 630.6 T88
 Bulletin, Jan. 1912-13. no.22-25. [1912-13.]
 For no.11, 14-21 see preceding catalogue, v.6.
- United States**—Agriculture, Department of. r 630.6 U25b
 Bulletin, Sept. 1913-date. no.1-date. 1913-date.
 No.343 wanting.
 Issued irregularly.
 Each number has title "Bulletin," but the title-page issued for binding into volumes reads "Department bulletin."
- United States**—Agriculture, Department of. r 630.6 U253a
 Farmers' bulletin; index, no.1-500; complete list of bulletins issued to Oct. 15, 1916.
 For numbers of bulletin see preceding catalogue, v.1.
- United States**—Agriculture, Department of. qr 630.6 U25w
 Weekly news letter to crop correspondents, Aug. 13, 1913-date.
 v.1-date. 1913-date.

United States—Alaska agricultural experiment stations. r 630.6 U2536c
Circular. no.1—date. 1916—date.

United States—Experiment stations office. r 630.6 U2534k

Key to subject index of experiment station literature; revised Feb. 1, 1909. [1909.] (Circular no.23, rev.)

With this is bound "The card index of experiment station literature."

Explaining decimal system card-index, begun in 1888 and covering (in 1911) all regular publications of agricultural experiment stations in the United States, Alaska, Hawaii and Porto Rico.

United States—Foreign and domestic commerce bureau. r 381 U25

Commercial and agricultural organizations of the United States. 1913. (62d cong. 3d sess. Senate. Doc. no.1109.)

The list of agricultural associations was prepared in the Department of agriculture.

United States—Guam agricultural experiment station. r 630.6 U2538

Annual report for 1911-16. 1912-17.

United States—Hawaii agricultural experiment station. r 630.6 U2535

Bulletin. no.2, 5-7. 1902-04.

No.4 wanting.

For contents see Contents book kept at the reference desk.

For numbers 1, 3, 8—date see preceding catalogue, v.1, 4.

United States—Plant industry bureau. r 630.6 U2532f

Farmers' cooperative demonstration work, 1908-13. [1908-13.]

United States—Plant industry bureau. r 630.6 U2532se

Service and regulatory announcements, 1914—date. 1914—date.

United States—States relations service. r 630.6 U2534f

Federal legislation, regulations and rulings affecting agricultural colleges and experiment stations, revised to Oct. 15, 1915; act of 1862 donating lands for agricultural colleges. 1916.

United States—Statistics division. (Department of agriculture.) r 630.6 U25rc

Circular, 1896-1913. no.1-47. [1896]-1913.

No more published.

Virginia—Agricultural experiment station, Blacksburg. r 630.6 V34an

Annual report, 1908/09-1915/16. 1911-17.

Washington (state)—Agricultural experiment station, Pullman. r 630.6 W27

Annual report (21st-26th), 1910/11-1915/16. 1911-17. (In its Bulletin.)

23d report for 1912/13 not published.

For reports for 1892-1910 see preceding catalogue, v.6.

West Virginia—Agricultural experiment station, Morgantown. r 630.6 W56c

Circular. no.2—date. 1903—date.

West Virginia—Agricultural experiment station, Morgantown. r 630.6 W5622

Report, July 1, 1912-June 30, 1914. [1914.]

Contains also 2d Biennial report of the College of agriculture, West Virginia University.

West Virginia University—College of agriculture. r 630.6 W562
Circular [of the] Extension department, College of agriculture, Feb. 1915–date. no.1–date. 1915–date.
Many numbers wanting.

Wisconsin—Agricultural experiment station, Madison. r 630.6 W812c
Circular of information, July 1909–date. no.1–date. 1909–date.

Wisconsin—Agriculture, Department of. r 630.6 W8122
Bulletin. no.1–date. 1915–date.
Issued irregularly.
“Wisconsin farm crop report,” issued until 1915 by the State board of agriculture, has been incorporated in this bulletin.

Wisconsin—Agriculture, State board of. r 630.6 W81w
Wisconsin farm crop report, June–July, Nov. 1908, June–Aug. Nov. 1909, May 1910, Nov. 1911, June–Aug. Nov. 1912, May–Aug. Oct.–Nov. 1913, May–Aug. Nov. 1914, May–July 1915. 1908–15.
Issued irregularly.
Publication discontinued. Incorporated in 1915 in the “Bulletin” of the Department of agriculture.

Wyoming—Agricultural experiment station, Laramie. r 630.6 W99a
Annual report (6th, 10th, 12th–13th, 15th, 17th–19th, 22d–25th), 1896, 1899/1900, 1901/02–1902/03, 1904/05, 1906/07–1908/09, 1911/12–1914/15.
For reports for 1909/10–1910/11 see preceding catalogue, v.6.

Wyoming—Agricultural experiment station, Laramie. r 630.6 W99
Bulletin; index bulletin A–E, no.1–98, 1891–1913.
For volumes of bulletin see preceding catalogue, v.6.

Agricultural education. Manuals

630.7 A27

Agricultural education in secondary schools; papers read at the second annual meeting of the American Association for the Advancement of Agricultural Teaching, Columbus, Ohio, Nov. 14, 1911. 1912. (United States—Education bureau. Bulletin, 1912, no.6.)

The same, 1911–12. 1912–13. (In United States—Education bureau. Bulletin, 1912, no.6, 1913, no.14.) r 370 U25

Bricker, Garland Armor. 630.7 B74

The teaching of agriculture in the high school, with an introduction by W. C. Bagley. 1911. Macmillan.

“Recent textbooks on general agriculture,” p.185–190.

Advocates teaching of elemental rather than elementary agriculture in the secondary schools, and as a separate science. Outlines organization and arrangement of course, laboratory and field work, etc.

Davis, Benjamin Marshall. 630.7 D31

Agricultural education in the public schools; a study of its development with particular reference to the agencies concerned, with an introduction by C. H. Judd. 1912. University of Chicago Press.

“Bibliography,” p.132–159.

Not restricted to public schools. Deals briefly with development of agricultural education in the United States, and with work of all the agencies (Federal, state and institutional) now engaged therein. Discusses literature of the subject and has annotated bibliography of exceptional value.

Macdonald Consolidated School, Hillsboro, lot 48, P. E. Island. qr 630.7 S55

Annual report for the year ended Sept. 30th, 1910. [1910.]
Bound with Sherwood's "Children of the land."

Ohio—State commissioner of common schools. r 630.7 O18

Uniform course of study in agriculture for the elementary schools of Ohio. 1912.

With this is bound "A course of study in agriculture for the high schools of Ohio."

Robertson, James Wilson. r 630.7 R54

Macdonald College movement; an address before the National Education Association of the United States at Denver, July 7, 1909. 1909.

Reprinted from the "Journal of proceedings and addresses," 1909 of the National Education Association.

Account of the system of rural education established in Canada by Sir William C. Macdonald of Montreal.

Robison, Clarence Hall. 630.7 R55

Agricultural instruction in the public high schools of the United States. 1911. (Columbia University, New York—Teachers college. Contributions to education, no.39.)

The same. (In Columbia University, New York—Teachers college. Contributions to education, no.39.).....r 379 C72 no.39

"List of references on agricultural education," p.191-200.

Sherwood, Herbert Francis. qr 630.7 S55

Children of the land; the story of the Macdonald movement in Canada. 1910.

Reprinted from the "Outlook," v.94, April 23, 1910.

With this is bound "Annual report of the Macdonald Consolidated School, Hillsboro, lot 48, P. E. Island."

Pamphlet outlining history and activities of campaign fostered by Sir William C. Macdonald for improvements in rural education.

United States—Agriculture, Department of. r 630.7 U253

List of workers in subjects pertaining to agriculture and home economics, June 1, 1914-Dec. 1915. 1914-16.

[v.1.] June 1, 1914.

[v.2.] Aug. 1, 1915.

[v.3.] Dec. 1915.

Pt.1 of each volume is "United States department of agriculture," prepared in the Division of publications; pt.2 is "State agricultural colleges and experiment stations," prepared in the States relations service.

United States—Experiment stations office. r 630.7 U251

Institutions in the United States giving instruction in agriculture. 1908.

United States—States relations service. r 630.7 U25

Syllabus. no.15-23. 1914-16.

Name was changed from Experiment stations office to States relations service July 1, 1915.

For contents see Contents book kept at the reference desk.

For no.1-14. see preceding catalogue, v.4, 6, under "United States—Experiment stations office. Farmers' Institute lecture."

Bailey, Liberty Hyde.

630.8 Br6a

Farm and garden rule-book; a manual of ready rules and reference, with recipes, precepts, formulas and tabular information. 1911. Macmillan. (Rural manuals.)

Earlier edition has title "Horticulturist's rule-book," (r 630.8 Br6a).

Well arranged reference book touching on practically every branch of agriculture.

Agriculture in special localities

Scott, J. W. Robertson-

630.9492 S42

A free farmer in a free state; a study of rural life and industry and agricultural politics in an agricultural country. 1912. Heinemann.

Careful and extended study of agricultural life and conditions in Holland. Considerable attention to effect of free trade on prosperity of the country.

King, Franklin Hiram.

630.951 K26

Farmers of 40 centuries; or, Permanent agriculture in China, Korea and Japan. 1911. King.

Interesting first-hand information regarding agricultural practice in the Far East. Well illustrated.

West Indies, British—Agriculture, Imperial department of.

r 630.9729 W56

Pamphlet series [relating to agriculture]. no.37-date. 1905-date.

Anderson, Frederick Irving.

630.973 A54

The farmer of to-morrow. 1913. Macmillan.

Contents: The farmer of yesterday.—The line of least resistance.—The gleaners.—The dry lands and the forests.—The division of soils and the specialization of crops.—The bookkeeping theory of soil fertility.—The soil as an immutable asset.—The evidence of history and research.—Soil sanitation.

Popular consideration of the opportunities afforded by agriculture to-day. Discusses the problems of available land, land reclamation, and dry farming, and gives much attention to soil fertility.

Earle, Franklin Sumner.

630.973 E17

Southern agriculture. 1908. Macmillan.

General discussion of soil management, plant growth and farm policy, followed by consideration of the chief field and truck crops, and fruits, and a discussion of certain problems of forestry and stock raising.

Montgomery, Edward Gerrard.

630.973 M86

Productive farm crops. 1916. Lippincott. (Lippincott's farm manuals.)

Deals in general with modern methods of planting, care and harvesting. Since all cultivated field crops (including root crops) are considered the treatment is necessarily very brief.

United States—Crop estimates bureau.

r 630.973 U2532

Field agent's handbook of agricultural statistics, for crop reporters.

1914.

The figures were compiled from the published results of the census of 1910.

United States—Immigration and naturalization bureau. r 630.973 U253

Agricultural opportunities; information concerning resources, products and physical characteristics of [the United States]. no.1-5. 1912.

United States—Immigration bureau.

630.973 U25

Wiadomości rolnicze. 7 pts. in iv. 1913.

- Vermont**—Publicity bureau. r 630.9743 V27
 Vermont farms; some facts and figures concerning the agricultural resources and opportunities of the Green mountain state.
 "Agricultural publications," p.65-78.
- South Carolina**—Agriculture, commerce and r 630.9757 S72
 industries, Department of.
 Annual report (10th), 1913. 1914.
 Binder's title reads "Year book."
- Warren, Joseph Allen.** 630.978 W24
 Agriculture in the central part of the semiarid portion of the great plains. 1911. (United States—Plant industry bureau. Bulletin no.215.)
The same. (In United States—Plant industry bureau. Bulletin no.215.).....qr 630.6 U2532 no.215
 Applies to eastern Colorado and Wyoming, and western Kansas and Nebraska. Annual precipitation is approximately 16 to 20 inches. Discusses crops, soils and methods of farming.

631 Soils

Bibliography

- Riverside, Cal.**—Public library. r 016.631 R52
 Soils of interest to California citrus growers. 1914. (Bulletin 111.)
 Bibliography of soils in general, citrus soils, and hardpan.
- United States**—Soils bureau. r 016.631 U253
 List of soil surveys. 1915.
 Gives alphabetically by states the soil surveys completed or in progress.

General works

- Agee, Alva.** 631 A26
 Crops and methods for soil improvement. 1912. Macmillan.
 "Not a technical treatise and is designed only to point out the plain, every-day facts in the natural scheme of making and keeping soils productive." *Introduction.*
 Discusses in some detail the most common causes of infertility—lack of lime, inadequate drainage, lack of organic matter and of plant food.
- Donaldson, John.** r 631 D71
 Rudimentary treatise on clay lands and loamy soils. 1852. Weale.
- Illinois**—Agricultural experiment station, Urbana. qr 631 I22
 Soil report, March 1911–Nov. 1916. no.1-14. 1911-16.
- Menges, Franklin.** r 630.6 P399b no.250, 257
 Soils of Pennsylvania; a statement of the origin and capacity of the soils of the various counties. 2 pts. 1914. (In Pennsylvania—Agriculture, Department of. Bulletin, no.250, 257.)
 pt.1. Counties east of the Allegheny mountains.
 pt.2. Counties west of the Allegheny mountains.
- Russell, Edward John.** 631 R91
 Lessons on soil. 1911. Cambridge University Press. (Cambridge nature study series.)
 Exceptionally good elementary book. Gives simple, practical exercises and suggests observations to show the properties of different soils.

Wheeler, Homer Jay.

631 W61

Manures and fertilizers; a text-book for college students and a work of reference for all interested in the scientific aspects of modern farming. 1913. Macmillan. (Rural text-book series.)

Discusses almost every kind of available fertilizer and illustrates the effects of the better known fertilizers on plant growth.

Warington, Robert.

631.12 W22

Lectures on some of the physical properties of soil. 1900. Clarendon Press.

Lectures were delivered by author as professor of rural economy at Oxford in 1896.

Livingston, Burton Edward, & Hawkins, L. A.

r 631.122 L74

Water-relation between plant and soil. 1915. (Carnegie Institution of Washington. Publication no.204.)

"Literature cited," p.47-48.

With this is bound "Water-supplying power of the soil as indicated by osmometers," by H. E. Pulling and B. E. Livingston.

Pulling, Howard Edward, & Livingston, B. E.

r 631.122 L74

Water-supplying power of the soil as indicated by osmometers. 1915. (Carnegie Institution of Washington. Publication no.204.)

"Literature cited," p.84.

Bound with Livingston, B. E. & Hawkins, L. A. "Water-relation between plant and soil."

Cameron, Frank Kenneth.

631.13 C15

The soil solution; the nutrient medium for plant growth. 1911. Chemical Pub. Co.

Study of soil moisture or soil solution, the solution of solid and gaseous products from which green plants, through their roots, draw all the material involved in their growth, except the carbon dioxide absorbed through their leaves. Numerous references to original literature.

"Exceedingly critical. . . Main contention is that the lack of agreement between practice and theory and the failure to arrive at other than empirical results is to be ascribed to the tendency of investigators to regard the problem of the soil from a static point of view, when as a matter of fact it is essentially dynamic. . . For its survey of the recent literature of the chemistry of the soil the book has a very real value." *Chemical news*, 1911.

Russell, Edward John.

631.13 R91

Soil conditions and plant growth. 1912. Longmans. (Monographs on biochemistry.)

"A selected bibliography," p.154-166.

Summarizes and sets forth in interesting form present (1912) knowledge of the soil as a medium of plant growth.

Crop rotation

Parker, Edward Cary.

631.3113 P23

Field management and crop rotation, planning and organizing farms, crop rotation systems, soil amendment with fertilizers, relation of animal husbandry to soil productivity and other important features of farm management. 1915. Webb Pub. Co.

Mainly on the advantages of crop rotation, and systems for various parts of the United States.

Subtropical gardening

Rolfs, Peter Henry.

631.32213 R63

Subtropical vegetable-gardening. 1916. Macmillan. (Rural science series.)

Silos

Silver Manufacturing Co. Salem, O.

631.3832 S58

Modern silage methods; an entirely new and practical work on silos; their construction and the process of filling, to which is added complete and reliable information regarding silage and its composition, feeding and a treatise on rations; a feeders' and dairymen's guide. Rev. ed. 1911.

Gives useful information, incidentally suggesting use of cutters and elevators made by the publishers.

Universal Portland Cement Co.

631.3832 U25

Concrete silos; a booklet of practical information for the farmer and the rural contractor. Ed.2. 1911.

Bibliography, p.7.

The same.....r 631.3832 U25

Discusses methods and costs of construction. Treats very briefly of preparation and use of ensilage.

Fertilizers

qr 631.5 A51

American fertilizer hand book, 1913, 1916, a standard reference book and directory of the commercial fertilizer industry and allied trades. 1913-16. Ware.

For volume for 1909 see preceding catalogue, v.6.

United States—Soils bureau.

r 631.5 U25

Fertilizer resources of the United States; a preliminary report. 1912. (62d cong. 2d sess. Senate. Doc. no.190.)

"Reference list for phosphates," p.78-106.

"Reference list of papers concerning the economic uses of algæ and concerning the salts derived from ashes," p.271-276.

"A reference list to the literature of the marine algæ," p.277-290.

Deals in large part with sea-weed as a source of potash salts and looks favorably on the possibilities for development in this industry.

Van Slyke, Lucius Lincoln.

631.5 V17

Fertilizers and crops; or, The science and practice of plant-feeding; a presentation of facts, giving practical methods for using fertilizers in crop growing, with special emphasis on the reasons underlying their use, and on the conditions of their greatest efficiency. 1912. Judd.

Valuable and comprehensive presentation of subject. Treatment is at once scientific and practical.

Louisiana—Agricultural experiment station.

r 631.57 L92

Baton Rouge.

Fertilizer report, season 1912/13. 1913.

Summary of results of 5,643 analyses.

For reports for 1908-09, 1910/11 see preceding catalogue, v.6.

Weitz, Max. qr 631.571 W47

Der chilispeter als düngemittel. Ed.2, rev. & enl. 1912.

Discusses briefly the occurrence and preparation of sodium nitrate, and deals fully with fertilizing value, giving results of extensive tests.

Knox, Gordon Daniell. 631.5711 K35

Spirit of the soil; or, An account of nitrogen fixation in the soil by bacteria and of the production of auximones in bacterized peat, with a foreword by W. B. Bottomley. 1915. Stokes.

List of papers by W. B. Bottomley, dealing with bacterial fixation of nitrogen and the effect of soluble humates in the soil, p.239.

Rusby, Henry Hurd. r 631.583 R89

Influence of radio-active earth in plant growth and crop production [lecture delivered at the New York Botanical Garden on Nov. 14, 1914. 1915].

Reprinted from the "Journal of the New York Botanical Garden," Jan. 1915.

American Republics Bureau. r 631.671 A51

The great nitrate fields of Chile. 1909.

Reprint of an article from the "Monthly bulletin of the International Bureau of American Republics," July 1908.

Consideration of the industry, with discussion of the available deposits.

Drainage

Dempsey, George Drysdale. r 631.7 D42

Rudimentary treatise on the drainage of districts and lands. Ed.3, rev. & [enl.]. 1859. Weale.

Florida Everglades Engineering Commission. r 631.7 F66

Florida Everglades; report to the Board of commissioners of the Everglades drainage district and the trustees of the internal improvement fund, state of Florida, 1913. 1914. U. S. Government. (United States. 63d cong. 2d sess. Senate. Doc. no.379, v.7.)

"Bibliography," p.121.

Nolen, John H. r 631.7 N41

Missouri's swamp and overflowed lands and their reclamation; report of special agent of the state made to the 47th Missouri general assembly, Jan. 1913.

Palmer, Benjamin Whipple. qr 330.4 M72 no.5

Swamp land drainage, with special reference to Minnesota. 1915. University of Minnesota. (In Minnesota University. Studies in the social sciences, no.5.)

"Authorities," p.128-130.

Smith, Samuel Rodmond. r 631.7 S65

Reclamation of the Florida Everglades. 1909. Privately printed.

Pamphlet emphasizing value of the improvement of the Everglades, with information on the soil, climate, etc.

Irrigation

Bibliography

Sydney, Public Library of New South Wales. r 016.6318 S98

List of references to publications relating to irrigation; comp. by G. H. Gifford. 1913.

United States—Reclamation service. r 016.6318 U25

List of engineering articles, with index. 1914.

v.12 of the Annual report of the United States reclamation service.

The same. 1913. (In its Annual report, 1912/13, v.12.) .r 631.8 U2535

General works

International Irrigation Congress. r 631.8 N15

Official proceedings of the congress (21st), 1914. 1915.

In 1912 the name of the congress was changed from National Irrigation Congress to International Irrigation Congress.

No meeting was held in 1913.

For earlier volumes see preceding catalogue, v.4, 6, under "National Irrigation Congress."

Laffineur, Jules. r 631.8 L14

Guide pratique de l'ingénieur agricole hydraulique, dessèchement, drainage, irrigations, etc., suivi d'un appendice contenant les lois, décrets, règlements et instructions ministérielles qui régissent ces matières. 1865.

With this is bound his "Guide pratique d'hydraulique urbaine et agricole."

Newell, Frederick Haynes. 631.8 N27

Irrigation management; the operation, maintenance and betterment of works for bringing water to agricultural lands. 1916. Appleton.

In part a reprint of articles in various magazines. Devoted mainly to organization and economics. Irrigation engineering is not included.

Teele, Ray Palmer. 631.8 T26

Irrigation in the United States; a discussion of its legal, economic and financial aspects. 1915. Appleton.

Not concerned with principles or practice of irrigation engineering, but with irrigation as an investment, the present status of irrigation enterprises in the United States, and the outlook for the future.

United States—Board of army engineers on r 631.8 U2537
reclamation projects.

Fund for reclamation of arid lands; a report of the Board of army engineers in relation to the reclamation fund. 1911. (61st cong. 3d sess. House. Doc. no.1262, v.78.)

United States—Plant industry bureau. r 631.8 U2538d

Demonstrations on reclamation projects. no.1-2. 1915-16.

United States—Plant industry bureau. r 631.8 U2538

Western irrigation agriculture, 1914-date. 1914-date.

Agricultural engineering. Farm implements**Davidson, Jay Brownlee.****631.9 D29a**

Agricultural engineering; a text book for students of secondary schools of agriculture, colleges offering a general course in the subject and the general reader. 1913. Webb.

Contains bibliographies.

Comprehensive in scope and non-technical in treatment. Treats of surveying, drainage and irrigation, road building, farm machinery and farm motors, buildings and sanitation.

International Harvester Company.**qr 631.9 I24**

Harvest scenes of the world. 1913.

"The illustrations show every method of harvesting known to man since the time of Rameses, 2500 years B. C." *Introductory*.

Half-tones showing agricultural scenes. Not confined to harvesting.

Pennsylvania Railroad Co.**631.9 P39**

Intensive farming and use of dynamite. 1911.

Cover title reads "Increase the crop per acre."

Practical directions and precautions for use of dynamite on the farm in blasting stumps, rocks and hardpan.

American Society of Agricultural Engineers.**r 631.905 A51**

Transactions, 1911-14. v.5-8.

For v.1-4 see preceding catalogue, v.6.

632 Blights. Insect pests**Ashmead, William Harris.****r 632 A82**

Orange insects; a treatise on the injurious and beneficial insects found on the orange trees of Florida. 1880. Ashmead.

Indiana—State entomologist.**r 632 I24**

Annual report (5th-9th), 1911/12-1915/16. 1912-17.

For reports for 1907/08-1910/11 see preceding catalogue, v.6.

O'Kane, Walter Collins.**632 O22**

Injurious insects; how to recognize and control them. 1912. Macmillan.

"References," p.381-389.

Convenient and attractive manual. Descriptive rather than scientific in treatment. Identification simplified by excellent illustrations.

Oregon—Agricultural experiment station, Corvallis.**r 632 O28**

Biennial crop pest and horticultural report (1st-date), 1911-date. 1913-15.

Sanderson, Ezra Dwight.**632 S21**

Insect pests of farm, garden and orchard. 1912. Wiley.

Well illustrated, practical treatise on life, habits and extermination of injurious insects. Discusses in detail the enemies of specific crops and fruits, both in the field and in storage. Practically complete except for citrus fruits. Author is (1912) dean of the College of Agriculture, West Virginia University, and director West Virginia agricultural experiment station.

"A work which must take its place among the standard volumes on economic entomology." *E. P. Felt, in Journal of economic entomology, 1912.*

- Slingerland, Mark Vernon, & Crosby, C. R.** 632 S63
Manual of fruit insects. 1914. Macmillan. (Rural manuals.)

Contains references.

Thorough and accurate. Based on extensive work in economic entomology at Cornell University Agricultural Experiment Station.

Attempts "to treat only the more important insects injurious to deciduous fruits; many of the minor pests have been omitted altogether. In each case the aim has been to give, in as concise form as possible, the main facts relating to the distribution, life-history, and habits...the nature and extent of the injury inflicted, and the means of control—the last from the standpoint of the commercial fruit-grower." *Preface by C. R. Crosby.*

- United States—Federal horticultural board.** r 632 U2532
Service and regulatory announcements, March 1914–date. 1914–date.

- Sabachnikoff, Vladimir.** r 632.184 S11
Contribution à l'étude des fumées et des poussières industrielles dans leurs rapports avec la végétation. 1913.

"Bibliographie," p.239–252.

Thesis for doctor's degree, University of Nancy.

- Schroeder, Julius von, & Reuss, Carl.** qr 632.184 S38

Die beschädigung der vegetation durch rauch und die Oberharzer hüttenrauchschäden; unter beihülfe des Kgl. Preuss. Ministeriums für landwirthschaft, domainen u. forsten. 1883.

Exhaustive study. One chapter is devoted to deleterious effects of coal smoke. Colored plates.

- Pennsylvania—Chestnut tree blight commission.** r 016.6324 P39
Bibliography of the chestnut tree blight fungus, by R. K. Beattie. 1914.

- Pennsylvania—Chestnut tree blight commission.** r 632.4 P399
Bulletin, Oct. 1912–Dec. 1913. no.1–7. 1912–13.
No more published. Commission discontinued.

- Pennsylvania—Chestnut tree blight commission.** r 632.4 P399r
Report, July 1912–Dec. 1913. 1913–14.
Report for 1913 is the final report of the commission.

- Pennsylvania Chestnut Blight Conference, Harrisburg, 1912.** r 632.4 P39

Conference called by the governor of Pennsylvania to consider ways and means for preventing the spread of the chestnut tree bark disease, Feb. 20–21, 1912; stenographic report of proceedings. 1912.

- Herrick, Glenn Washington.** 632.6 H47

Insects injurious to the household and annoying to man. 1914. Macmillan. (Rural science series.)

Bibliography at the end of each chapter.

"The writer devotes the principal part of the discussion to the habits, injuries and control of insects simply as pests of the household and of man, contenting himself with a brief summary of the relation of insects to disease." *Introduction.*

Non-technical. Has chapter on fumigation methods of control.

- Massachusetts—State forester.** r 632.68 M45

Parasites of the gypsy and brown-tail moths introduced into Massachusetts, by W. F. Fiske. 1910.

With this are bound: How to make improvement thinnings in Massachusetts woodlands; The study of the evergreens in the public schools; The chestnut bark disease; A study of the Massachusetts wood-using industries; Forest nursery and reforestation work in Massachusetts.

United States—Insecticide and fungicide board. r 632.951 U25
Service and regulatory announcements, Feb. 1914–date. 1914–date.

633 Grains. Grasses. Fibers

Livingston, George. 633 L74

Field crop production; a text-book for elementary courses in schools and brief courses in colleges. 1914. Macmillan. (Rural text-book series.)

"A brief list of references," p.397–398.

Gives description, uses and cultural methods, dividing crops into grain, forage fiber, root and related crops, and miscellaneous. On account of the extensive scope, individual crops are necessarily treated briefly.

United States—Botany division. r 633 U2533c

Circular. no.1–2, 5, 9, 11–12, 15, 17–18, 23–30. [1894–1902.]

Publication discontinued with no.30.

In 1901 the Botany division was merged in the Bureau of plant industry.

Cereals

Carleton, Mark Alfred. 633.I C19

The small grains. 1916. Macmillan. (Rural text-book series.)

"Bibliography," p.639–685.

In studying the nature and habits of cereals, foreign crops are considered to some extent, but cereal cultivation is treated with special reference to the United States.

"The four principal cereals [wheat, oats, barley and rye] are treated separately and from the individual plant standpoint as to their origin, characters, classification, varieties, selection and hybridization. Thereafter these cereals are treated together in respect to the further subjects of soil and climatic relations, acclimatization, cultivation, irrigation, weeds, insect and fungus pests, and uses." *Preface.*

Rutter, William Pickering. 633.II R94

Wheat-growing in Canada, the United States and the Argentine, including comparisons with other areas. 1911. Black.

"Bibliography," p.303–308.

Deals with varieties, distribution, yield, quality, cultivation, harvesting, transportation and marketing. Economic rather than agricultural study.

Wood, Thomas Barlow. 633.II W85

The story of a loaf of bread. 1913. Cambridge University Press. (Cambridge manuals of science and literature.)

"Bibliography," p.136–138.

Takes up the growing of wheat, the manufacture of flour and its conversion into bread. Simple but scientific in treatment.

Bowman, Melville LeRoy, & Crossley, B. W. 633.I5 B66

Corn; growing, judging, breeding, feeding, marketing, for the farmer and student of agriculture; a text-book for agricultural colleges and high schools. Ed.2, rev. 1911. Privately printed.

"Collateral reading" at the end of chapters.

Largely a compilation. Contains useful information but is not well arranged. Illustrations of insect pests are especially good.

Montgomery, Edward Gerrard.

633.15 M86

Corn crops; a discussion of maize, kafirs and sorghums as grown in the United States and Canada. 1913. Macmillan. (Rural text-book series.)

References at the end of many chapters.

Practical work. By professor of farm crops, in New York State College of Agriculture at Cornell University. Considers characteristics, requirements and cultural methods.

Wilkinson, Albert Edward.

633.15 W72

Sweet corn. 1915. Judd.

Practical methods of cultivation, both for domestic use and on a commercial scale. Canning is also discussed.

Forage crops

Piper, Charles Vancouver.

633.3 P64

Forage plants and their culture. 1914. Macmillan. (Rural text-book series.)

The large number of crops included prohibits lengthy consideration of each, but those of greatest importance are dealt with in some detail. Those of minor importance, and a few root crops are considered very briefly.

Riverside, Cal.—Public library.

r 016.63331 R52

Alfalfa [a partial bibliography]. 1913.

Classified bibliography, covering all important branches of the alfalfa industry.

Henderson, John, agriculturist.

r 633.314 H44

Hand-book of the grasses of Great Britain and America; their generic and specific character, comparative nutritive value, soils best adapted for their cultivation, proper times and methods of sowing, approved mixtures and quantities usually sown, after management, etc. 1875. Journal Pub. Co.

Hitchcock, Albert Spear.

633.314 H62

Text-book of grasses, with especial reference to the economic species of the United States. 1914. Macmillan. (Rural text-book series.)

"List of books and articles relating to taxonomic agrostology," p.262-266.

Author is (1915) systematic agrostologist, United States department of agriculture. Chief attention to systematic agrostology, but economic agrostology is treated briefly.

Wing, Joseph Elwyn.

633.31422 W78

Alfalfa farming in America. 1909. Sanders.

Discusses history, habits of alfalfa, soil requirements and inoculation, methods of cultivation under various conditions, the many uses of alfalfa and the growing of seed.

Herbs. Spices

Kains, Maurice Grenville.

633.451 K11

Culinary herbs; their cultivation, harvesting, curing and uses. 1912.

Judd.

Emphasizes importance of herbs for use as foods and relishes, and gives information concerning particular varieties.

Ridley, Henry Nicholas.

633.453 R44

Spices. 1912. Macmillan.

Contents: Introduction.—Vanilla.—Nutmegs and mace.—Cloves.—Pimento or all-spice.—Cinnamon.—Cassia bark, massoi bark.—Black peppers.—Long pepper, grains of

Ridley, Henry Nicholas—*continued*. 633-453 R44
paradise.—Cardamoms.—Capsicums or chilies.—Coriander, dill, cumin.—Ginger.—
Turmeric, zedoary, galangal and calamus root.

"References" at the end of each chapter.

Useful book of reference, giving in some detail the history, cultivation and insect enemies, method of marketing and trade conditions of the spices described.

Rubber

For Manufactures, see 678

International Rubber Congress (2d), London, 1911. qr 633-473 I24

The rubber industry; being the official report of the proceedings of the International Rubber Congress, London, 1911, held at the International Rubber and Allied Trades Exhibition; ed. by Joseph Torrey and A. S. Manders. [1911.] International Rubber and Allied Trades Exhibition.

Collection of papers giving little attention to manufacturing processes, but dealing at length with cultivation and production, and more briefly with properties and tests.

Lloyd, Francis Ernest. qr 633-473 L75

Guayule (*parthenium argentatum* Gray); a rubber-plant of the Chihuahuan desert. 1911. (Carnegie Institution of Washington. Publication no.139.)

"Bibliography," p.211-213.

The production of rubber from the guayule shrub involves more intricate methods than are employed with ordinary latex-bearing plants. The rubber cannot be collected by "bleeding," but being contained in the cells of the wood, must be obtained by various mechanical and chemical processes. Under present (1911) conditions the product is a rather low grade rubber which vulcanizes readily and is useful for many industrial purposes.

Lock, Robert Heath. 633-473 L75

Rubber and rubber planting. 1913. Cambridge University Press.

"Short list of references," p.12

Aim is "to combine an accurate account of the scientific side of rubber planting with a certain amount of practical information which may be of use to the prospective planter." *Preface*.

Tea. Cacao. Coffee

Browne, Edith A. j 633 B79

Tea. 1912. Black. (Peeps at industries.)

Author takes her readers on a tour to the different tea-producing countries—Ceylon, India, China, Japan, Java—where they learn all about the planting, picking, firing and shipping of tea. Photographic illustrations.

Ibbetson, A. 633-523 I12

Tea from grower to consumer. [1910.] Pitman. (Pitman's common commodities of commerce.)

Popular manual of the tea trade.

Hart, John Hinchley. 633-524 H31

Cacao; a manual on the cultivation and curing of cacao. 1911. Duckworth.

Deals fully with botany and chemistry of cacao, selection of land, cultivation and harvesting. Considers food value briefly. Does not include manufacture of chocolate.

- Graham, Harry Crusen.** 633.53 G76
Coffee; production, trade and consumption by countries. 1912.
(United States—Statistics division. (Department of agriculture.) Bulletin no.79.)

"Bibliography," p.130-134.

- The same.* (In United States—Statistics division. (Department of agriculture.) Bulletin no.79.).....r 630.6 U25re no.79

- Keable, B. B.** 633.53 K14
Coffee from grower to consumer. [1910.] Pitman. (Pitman's common commodities of commerce.)

Varieties, cultivation, methods of preparation, adulterants and substitutes.

Tobacco

- Brennan, William Augustine.** 633.57 B72
Tobacco leaves; being a book of facts for smokers. 1915. Index Office.

Contains bibliographies.

Historical and trade information. Discusses the different kinds of tobacco, the preparation of the various commercial forms, and the effects of its use.

Cotton

For Manufactures, see 677.1

- Brooks, Eugene Clyde.** j 633.71 B77
The story of cotton and the development of the cotton states. 1911. Rand.

Treats of the cultivation and manufacture of cotton and the development of the industry by means of improved machinery and inventions. Also traces its influence on the history of America and its relation to the life of the people. For grammar or high school use.

634 Fruits

- Bailey, Liberty Hyde.** 634 B16p2
Pruning-manual. Ed.18, rev. 1916. Macmillan. (Rural manuals.)

- Fletcher, Stevenson Whitcomb.** q 634 F63
How to make a fruit garden; a practical and suggestive manual for the home garden. 1910. Doubleday.

"Publications," p.268-269; "Varieties by states," p.270-283.

Reliable, comprehensive and well arranged, but lacks index. Covers rather fully selection, planning and care of orchard and garden and handling of fruit.

- Funk, J. H.** 634 F98
Fruits for Pennsylvania. Ed.2. 1911. (Pennsylvania—Agriculture, Department of. Bulletin no.152.)

- The same.* (In Pennsylvania—Agriculture, Department of. Bulletin no.152.).....r 630.6 P399b

Restricted to culture of orchard fruits. Valuable in spite of rather careless work in preparation and proof-reading. Best guide yet published (1912) to selection of varieties for various sections of Pennsylvania.

Harrison's Nurseries, Berlin, Md.

634 H31

How to grow and market fruit; practical explanations and directions for making fruit trees produce profit. 1911.

Has but little reference to nursery products of the publishers, and is filled with practical information. Not confined entirely to tree fruits; considers berries and some garden crops briefly.

Thorpe, Francis Newton.

634 T41

An American fruit-farm; its selection and management for profit and for pleasure. 1915. Putnam.

Record of a farm in the Lake Shore valley on the southern shore of Lake Erie in Pennsylvania.

Waugh, Frank Albert.

634 W33

Beginners' guide to fruit growing; a simple statement of the elementary practices of propagation, planting, culture, fertilization, pruning, spraying, etc. 1912. Judd.

Confined to purely amateur work in cultivation of orchard fruits. More elementary than his "American apple orchard."

Moore, Shepard Wells.

634.1 M87

Practical orcharding on rough lands. 1911. New Werner Co.

Devoted to care of apple orchards. Contains some useful hints, also much that is carelessly written and irrelevant.

Sears, Fred Coleman.

634.1 S43

Productive orcharding; modern methods of growing and marketing fruit. 1914. Lippincott. (Lippincott's farm manuals.)

Excellent book on handling of young and old orchards. Special attention to apple growing.

Bunyard, George.

634.112 B88

Apples & pears. [1911.] Jack.

Brief manual dealing with British varieties and their care. Gives receipts for using them.

Wilkinson, Albert Edward.

634.112 W72

The apple; a practical treatise dealing with the latest modern practices of apple culture. 1915. Ginn. (Country life education series.)

Valuable book, dealing systematically with the entire subject.

Waugh, Frank Albert.

634.1161 W33

The American peach orchard; a sketch of the practice of peach growing in North America at the beginning of the 20th century. 1913. Judd.

Deals fully with cultivation and marketing of peaches, and outlines extent of the industry in the United States.

Hedrick, Ulysses Prentiss, and others.

qr 634.1172 H39

Cherries of New York. 1915. (New York (state)—Agricultural experiment station, Geneva. Report, 1914, pt.2.)

v.2, pt.2 of the 22d annual report of the Department of agriculture of New York.

"Bibliography and references," p.337-346.

"Contains an historical account of cultivated cherries, the botany of this fruit, a statement of its present economic status in America, descriptions of all known varieties of cherries, the synonymy and bibliography of the species and varieties, and biographical sketches of the persons who have contributed materially to cherry culture in America. The most important varieties are illustrated in colors." *Preface.*

Fawcett, William.

634.1183 F29

The banana; its cultivation, distribution and commercial uses, with an introduction by Sir Daniel Morris. 1913. Duckworth.

Excellent and comprehensive treatment of all phases of banana culture and marketing. Gives thorough consideration to soils and fertilizers, plant diseases and insect enemies, botanical features, food value of bananas, and trade conditions.

Coit, John Eliot.

634.14 C67

Citrus fruits; an account of the citrus fruit industry, with special reference to California requirements and practices and similar conditions. 1915. Macmillan. (Rural science series.)

"Bibliography," p.461-503.

The citrus fruit industry in America has developed very rapidly, and largely along lines unknown in Old World practice. This book, treating the entire subject, is probably the most important work available (1915). Author is professor of citriculture in the University of California, and was formerly superintendent in charge, Citrus experiment station, Riverside, California. Exhaustive bibliography.

Hume, Harold Hardrada.

634.14 H92

Citrus fruits and their culture. [Ed.4.] 1911. Judd.

"American citrus literature," p.555-560.

Fairly comprehensive treatment of botanical relationships, culture and diseases of citrus fruits. Considers oranges, lemons, pomelos, citrons, limes, etc.

International Correspondence Schools, Scranton, Pa.

634.14 I24

Citrus fruits under irrigation, citrus fruits in gulf-coast states. 1914.

International Textbook Co. (International library of technology, v.127.)

The same.....r 634.14 I24

Practical work on commercial cultivation of all citrus fruits of commercial importance in the United States.

Biggle, Jacob.

634.3 B47

Biggle berry book; small fruit facts from bud to box. 1911. Atkinson. (Biggle farm library.)

Concise, reliable guide to practical cultivation and marketing.

Coghlan, H. Lake, & Hinchley, J. W.

634.539 C66

Coconut cultivation and plantation machinery. 1914. Lockwood.

Deals with management of cocoanut lands and preparation of commercial products. Considerable attention to financial matters.

Babo, Lambert Joseph Leopold, freiherr von.

r 634.6 B11

Der weinbau dargestellt nach der reihenfolge der vorkommenden arbeiten, nebst anleitung zur bereitung und weiteren pflege des weines; ein praktisches handbuch für alle welche sich mit weinbau und weinbehandlung beschäftigen. 1842.

Sill, Webster Harrison.

634.6 S58

Grape culture in Pennsylvania. 1912. (Pennsylvania—Agriculture, Department of. Bulletin no.217.)

"References," p.65-66.

The same. (In Pennsylvania—Agriculture, Department of. Bulletin no.217.).....r 630.6 P399b

Deals with soils, climate, cultivation, diseases, remedies, and with business management of vineyards.

634.9 Forestry

Actien-Gesellschaft für Forst-Industrie. r 634.9 A18

Die ausstellung der österreichischen Actien-Gesellschaft für Forst-Industrie in Wien auf der Wiener Welt-ausstellung, 1873 verfasst von der Forst-direction zu Waidhofen a. d. Ybbs. 1873.

Canada—Conservation commission. qr 634.9 C16

Forest protection in Canada, 1913-1914; comp. under the direction of Clyde Leavitt. 1915.

Reduction of fire risk in Dominion and private forests with prominent consideration of railway fire hazards.

Elliott, Simon Bolivar. 634.9 E52

The important timber trees of the United States; a manual of practical forestry, for the use of foresters, students and laymen in forestry, lumbermen, farmers and other land-owners and all who contemplate growing trees for economic purposes. 1912. Houghton.

"It is claimed that by a careful study of the contents of this volume one may, with the exercise of good judgment, successfully grow trees for economic purposes without being compelled to call in the services of a trained expert." *Preface.*

Considers the planting, growth and care of forests. Describes principal varieties with reference to the value of the timber.

Gerschel, J. r 634.9 G32

Vocabulaire forestier; français-allemand-anglais; revu par W. R. Fisher. Ed.5, enl. 1911. Clarendon Press.

Green, Samuel Bowdlear. r 634.9 G83

Forestry in Minnesota. 1902.

Published by the Minnesota geological and natural history survey.

Huntington, Ellsworth. r 634.9 H94

Secret of the big trees, Yosemite, Sequoia and General Grant national parks. 1913. U. S. Government.

Appeared in "Harper's magazine," v.125, July 1912, and was reprinted by the United States department of interior.

Jackson, Edwin Roy. 634.9 J12

Forestry in nature study. 1911. (United States—Agriculture, Department of. Farmers' bulletin no.468.)

Bibliography, p.37-38.

The same. 1911. (In United States—Agriculture, Department of. Farmers' bulletin no.468.) r 630.6 U2534 no.468 Pamphlet.

Lawson, William Pinkney. 634.9 L42

The log of a timber cruiser. 1915. Duffield.

Interesting record of six months' work in timber estimating and topographical mapping with the United States forest service in the mountains of southern New Mexico.

Maine—Forest commissioner. r 634.9 M26

Report (9th-10th), 1911-14. 1912-14.

For reports for 1906-10 see preceding catalogue, v.6.

Maps—United States. (1915.) r 634.9 M3

National forests by districts. 1915.

Size, 9½ x 14½ inches, folded in 12° cover; scale, 200 miles to 1 inch.

Contains inset maps "Alaska" and "Porto Rico."

Issued by the United States forest service.

- Moon, Frederick Franklin, & Brown, N. C.** 634.9 M87
 Elements of forestry. 1915. Wiley.
 "Bibliography" at the end of each chapter.
 Authors are respectively professor of forest engineering and professor of forest utilization, New York State College of Forestry, at Syracuse. Book is broad in scope, dealing with all branches of forestry except dendrology. Though not entirely free from inaccuracy, it is a good non-technical work for students and for general reading.
- Peets, Elbert.** 634.9 P36
 Practical tree repair; the physical repair of trees, bracing and the treatment of wounds and cavities. 1913. McBride.
 "Bibliography," p.263-265.
 "Has nothing, or but little, to say concerning the planting, fertilization, pruning, or spraying of trees...Devoted entirely to the prevention and repair of physical injuries to the framework of the tree, such injuries as are caused by wind and ice-storm, the ignorance or carelessness of men, the attacks of boring insects, and of that silent, destroying host, the rot-producing fungi." *Introduction.*
- Pennsylvania—A. W. Cook tract of land commission.** r 634.9 P3992
 Report of A. W. Cook tract of land commission. 1913.
 Brief report favoring purchase of a tract of land in Jefferson, Clarion and Forest counties for state park and forest reserve.
- Pennsylvania—Forestry department.** r 634.9 P39
 Bulletin, 1901-date. no.1-date. 1901-date.
- Pinchot, Gifford.** 634.9 P61pr
 Primer of forestry. 2 pts. in iv. 1909-II. U. S. Government.
 v.1. The forest.
 v.2. Practical forestry.
- Schlich, Sir William.** r 634.9 S34
 Manual of forestry. Ed.4, rev. v.3. 1911. Bradbury.
 v.3. Forest management.
- Seton, Ernest Thompson.** 634.9 S49
 The forester's manual; or, The forest trees of eastern North America. 1912. Doubleday. (Scout manual series, no.2.)
 Guide for identification of the common trees, giving brief descriptions, with illustrations of leaf and fruit.
- Switzerland—Commission chargée de l'enquête sur les forêts des montagnes.** r 634.9 S97
 Rapport au Conseil fédéral sur les forêts des hautes montagnes de la Suisse, inspectées dans les années 1858, 1859 et 1860 [E. Landolt, rapporteur]. 1862.
- Switzerland—Commission chargée de l'enquête sur les forêts des montagnes.** r 634.9 S97r
 Rapport au Conseil fédéral sur les torrents des Alpes suisses, inspectés en 1858, 1859, 1860 et 1863 [K. Culmann, rapporteur]. 1865.
- United States—Agriculture, Department of.** r 634.9 U2532n
 Laws, decisions and opinions applicable to the national forests; revised and comp. by R. F. Feagans. 1916.
- United States—Agriculture, Department of—Library.** r 016.6349 U25
 Catalogue of publications relating to forestry in the library of the department; prepared in the library of the department with the cooperation of the forest service. 1912. (Bulletin no.76.)

- United States**—Census bureau. r 634.9 U2534
 Forest products, 1911, 1912, no.[2]. 1913-14.
 Compiled in coöperation with the Forest service.
 For numbers for 1907-10 see preceding catalogue, v.6.
- United States**—Forest service. r 634.9 U25fi
 Fire protection in district 1; for the use of forest officers. 1915.
- United States**—Forest service. r 634.9 U25p
 Forest planting leaflet. no.1-24.
 Continued by the circulars of the Forest service (qr 634.9 U25c).
 Name of bureau, established as the Division of forestry, was changed in July 1901 to Bureau of forestry, and in July 1905 was again changed, becoming Forest service.
- United States**—Forest service. r 634.9 U25i
 Instructions for the scaling and measurement of national forest timber. 1915.
- United States**—Forest service. r 634.9 U25r
 Review of Forest service investigations. v.1-2. 1913.
 With this is bound "Purchase of land under the Weeks law in the southern Appalachian and White mountains," issued by the Forest service.
- United States**—Forest service. r 634.9 U25u2
 Use book; a manual of information about the national forests, 1913, 1915, 1918. 1913-18.
 Omits regulations which affect only forest officers.
- United States**—National forest reservation commission. r 634.9 U2536
 Report, 1914. 1914.
- United States**—President. (William Howard Taft.) r 634.9 U2535
 Chugach national forest lands in Alaska; message from the president of the United States, transmitting in response to a Senate resolution of June 27, 1911 all papers and information relating to the elimination from the Chugach national forest of certain lands fronting upon Controller bay in Alaska. 2v. 1911. (62d cong. 1st sess. Senate. Doc. no.77, v.11-12.)
 v.1. Text.
 v.2. Maps.
- Yale University**—Forestry department. r 634.9 Y13
 Bulletin. no.1. 1912. r 634.905 F7682
- Forestry**; a journal of forest and estate management [monthly], May 1877-April 1886. v.1-11, in 13. 1877-86.
 v.1-6, May 1877-April 1883, title reads "Journal of forestry and estates management."
 v.7-9, May 1883-Oct. 1884, title reads "Forestry; a magazine for the country."
 v.2, no.14, June 1878, wanting.
 Publication discontinued with v.11.
- Pinchot, Gifford.** 634.907 P61
 Training of a forester. 1914. Lippincott.
 Makes no attempt to teach forestry, but in a brief popular outline endeavors to define the work of a forester and to suggest the requirements. Special reference to the Federal forest service.
- United States**—Forest service. r 634.9197 U25
 Experiments with jack pine and hemlock for mechanical pulp, by J. H. Thickers. 1912. (Forest products laboratory series.)
 Investigation showing that these hitherto neglected woods can be advantageously used, either singly or in various combinations, for cheaper grades of paper.

United States—Forest service.

r 634.9197 U25p

Paper pulps from various forest woods; experimental data and specimens of soda and sulphite pulps; comp. by H. E. Surface. 1912. (Forest products laboratory series.)

Bryant, Ralph Clement.

634.9198 B84

Logging; the principles and general methods of operation in the United States. 1913. Wiley.

"Bibliography," p.467-478.

Excellent book, describing practical methods in detail. Includes log cutting and transportation.

"Of the many minor industries relating to logging, only two of the more important are treated, turpentine orcharding and tanbark harvesting." *Preface.*

Yellow Pine Manufacturers' Association, St. Louis.

r 634.926 Y23

Yellow pine; a manual of standard wood construction; prepared and compiled by A. T. North. [Ed.4.] 1913.

Contains also "Specified requirements of building codes, 1913."

Deals with structural properties of longleaf, shortleaf and loblolly pine.

Chapman, Herman Haupt.

634.935 C36

Forest valuation. 1915. Wiley.

Contents: Values.—Outlay and income.—Interest.—Valuation of assets.—Formulæ of compound interest.—Investments and costs in forest production.—The valuation of forests.—Forest statics, the balance sheet, profits.—The appraisal of damages.—Forest taxation.—Stumpage values.—Future value of forest products.—Risks.—Field appraisals of timber stumpage.—Comparison of forest values with agricultural values.

Covers only a portion of the subject of forest finance. The literature of this subject is largely of German origin. The standard English work, Schlich's "Forest valuation" ("Forest management," v.3, pt.2), follows the continental treatment of the subject. Schenck's "Forest finance," 1909, is thoroughly American and contains valuable suggestions for the advanced student. Neither of the above is sufficiently elementary to serve as a text-book, which is the purpose of the present work. *Condensed from Preface.*

Schenck, Carl Alwin.

r 634.935 S32

Forest finance; guide to lectures delivered at the Biltmore Forest School. 1909. Inland Press.

"In America, forest finance is and will be the most important branch of forestry." *Author's note.*

635 Horticulture. Vegetable gardening

Davis, James R.

635 D31

Up-to-date truck growing in the South; ed. by G. F. Hunnicutt. 1910. Cultivator Pub. Co.

Guide to intensive farming in Gulf and south Atlantic coast regions. Confined to practical methods, most of which have proved successful in the author's personal experience, extending over a period of 25 years, mainly in Florida.

Indiana Horticultural Society.

r 635 I24

Transactions, 1911-16. 1912-17.

For volumes for 1903, 1907-10 see preceding catalogue, v.6.

Lloyd, John William.

635 L75

Productive vegetable growing. 1915. Lippincott. (Lippincott's farm manuals.)

"Written from the viewpoint of conditions as they exist in the great central prairie region, known agriculturally as the corn belt. But the principles here laid down are applicable in all sections." *Preface.*

- Waldin, Walter.** 635 W15
Truck farming in the Everglades. 1910.
Describes climate, soil, drainage arrangements and culture of vegetables and fruits. Pictures the Everglades and their agricultural possibilities in very favorable light.
- Watts, Ralph Levi.** 635 W33v
Vegetable gardening. 1912. Judd.
The same. 1916. r 635 W33
Practical and comprehensive. An excellent guide for the beginner. Discusses location, soils, fertilizers, tools, irrigation, insect enemies, seeds and seed growing, construction of hotbeds and greenhouses, methods of storage, and principles of transplanting and crop rotation. Gives also cultural directions for individual crops.
- Corbett, Lee Cleveland.** 635.113 C81
Cabbage. 1911. (United States—Agriculture, Department of. Farmers' bulletin no.433.)
Trustworthy information on cultivation of cabbage as a truck crop, as a market-garden crop and as a farm crop. Author is (1911) horticulturist of the United States bureau of plant industry.
- Grubb, Eugene Housel, & Guilford, W. S. comp.** 635.121 G94
The potato; a compilation of information from every available source. 1912. Doubleday. (Farm library.)
Comprehensive rather than critical. Discusses food value, cultivation, history and distribution. Authors are enthusiasts on the subject.
- Beattie, William Renwick.** 635.129 B34
Picking and handling of peanuts. 1911. (United States—Plant industry bureau. Circular no.88.)
The same. (In United States—Plant industry bureau. Circular no.88.) r 632.1 U253
- Wilkinson, Albert Edward.** 635.135 W72
Modern strawberry growing. 1913. Doubleday. (Garden library.)
Practical guide, covering subject thoroughly.

636 Domestic animals

- Barton, Frank Townend.** 636 B28
The boy fancier; a complete manual of all matters appertaining to domestic pets suitable for the youthful fancier. [1912.] Routledge.
Contents: Dogs.—Ponies.—Goats.—Cats.—Rabbits.—Guinea-pigs or covies.—Ferrets.—Pet monkeys.—Fancy mice.—Squirrels.—Hedgehogs.—Poultry.—Pigeons.—Fancy pheasants.—British cage birds.—Foreign birds.
Written with reference to British conditions.
The same. j 636 B28
- Harper, Merritt Wesley.** 636 H28
Manual of farm animals; a practical guide to the choosing, breeding and keeping of horses, cattle, sheep and swine. 1911. Macmillan.
Comprehensive, well written and well arranged. Author is (1911) assistant professor of animal husbandry in New York State College of Agriculture, Cornell University.
- Johnson, Constance.** j 636 J35
When mother lets us keep pets. 1911. Moffat.
Tells how to feed and take care of dogs, cats, rabbits, guinea pigs, parrots, canaries, chickens, ponies and goats; also of fish and tadpoles in an aquarium.

- Keller, Conrad.** 636 K16
Descent of our domestic animals. 1913.
Russian text.
Issued as a supplement to "Priroda i ljudi."
- Plumb, Charles Sumner.** 636 P71b
Beginnings in animal husbandry. 1912. Webb. (Farm science series.)
Briefly considers the breeding, judging and feeding of horses, cattle, sheep, swine and poultry.
- Shamel, Clarence Albert.** 636 S528
Profitable stock raising; a careful discussion of the problems involved in the development of profitable live stock and the maintenance of soil fertility. 1911. Judd.
Instructive outline from economic point of view. Should be of interest to either the general farmer or the regular stock breeder. Author believes that live stock production, especially that relating to meat animals, is now at a transitional stage in the United States, and that the days of cheap live stock production by indifferent methods are past.
- Voogt, Gos de.** q 636 V37
Our domestic animals; their habits, intelligence and usefulness; tr. from the French by K. P. Wormeley, ed. for America by C. W. Burkett. 1907. Ginn.
Popular. Includes "Birds of the aviary." Only a few of the illustrations are American.

Stock feeding

- Burkett, Charles William.** 636.043 B91
First principles of feeding farm animals; a practical treatise on the feeding of farm animals, discussing fundamental principles and reviewing the best practices of feeding for largest returns. 1912. Judd.
Considers the most profitable rations for cattle, sheep, swine and poultry, giving calculations based on food constituents. Sensible and inclusive in treatment.
- Murray, J. Alan.** 636.043 M97
Chemistry of cattle feeding and dairying. 1914. Longmans.
- Louisiana—Agricultural experiment station,** r 636.04322 L92
Baton Rouge.
Feed stuffs report, season 1912/13. 1913.
For reports for 1908/09, 1910/11 see preceding catalogue, v.6.
- Imperial Institute of the United Kingdom, the** 636.04323 I23
Colonies and India.
Oil seeds and feeding cakes, with a preface by W. R. Dunstan. 1915.
Murray. (Imperial institute monographs.)
Primarily an investigation of the possibility of utilizing in England certain colonial raw products which prior to the outbreak of war (1914) were used chiefly in other countries. Considers copra, palm kernels, peanuts, sesame seed and mowra seed, particularly their value for stock feeding.
- Svoboda, Hanno.** r 636.04323 S96
Die erzeugung und verwendung der kraftfuttermittel; beschreibung der futtermittel des handels, handbuch für praktische landwirte, produzenten u. händler. 1915. (Hartleben's chemisch-technische bibliothek.)
Discusses concentrated feeding-stuffs, especially industrial residues, such as those from brewing and sugar manufacture.

Horses. Cattle

Barton, Frank Townend. 636.1 B28h

Horses and practical horsekeeping. 1912. Macmillan.

Extensive. Considers various breeds and classes of horses for various purposes. Considerable attention to diseases. Discussion of training and stable management is included, but is less satisfactory than Harper's "Training and breaking of horses"

Barton, Frank Townend. 636.1 B28

Ponies and all about them. 1911. Long.

Comprehensive in scope, but rather unequal in its treatment of the different branches of the subject. Gives particular space to the anatomy of the pony, stable management and specific diseases. Devotes 27 pages to the Shetland pony.

Bradburn, John. r 636.1 B67

Breeding and developing the trotter; ed. by A. C. Thomas. 1906. Amer. Horse Breeder Pub. Co.

Gay, Carl Warren. 636.1 G25

Productive horse husbandry. 1914. Lippincott. (Lippincott's farm manuals.)

Systematic practical work on horse breeding and management.

Harper, Merritt Wesley. 636.1 H28m

Management and breeding of horses. 1913. Orange Judd Co.

Gives much general information concerning breeding, judging and training of horses and mules. Discusses intimately each of the more important individual breeds, giving in most cases records and breeders' organizations.

Harper, Merritt Wesley. 636.1 H28

Training and breaking of horses. 1912. Macmillan. (Rural science series.)

Excellent practical manual, the best in its field (1912). Gives sensible advice for correct training for various purposes, proper harness, prevention and correction of bad habits, and care and treatment of horses.

r 636.1 H81

Horseman's handbook; a compendium of useful information for every horse owner. 1912.

Published by Magnus Flaws & Co.

With this is bound "By-laws" and "Rules and regulations" of the American Trotting Association as adopted Feb. 17, 1914.

Johnstone, James Hope Stewart. 636.1 J37

The horse book; a practical treatise on the American horse breeding industry as allied to the farm. 1912. Breeder's Gazette.

"Designed primarily to be of practical value to those who have in view the production of the types of horses in general request upon the farms and in the market places of the United States." *Publishers' preface.*

McClure, Robert. r 636.1 M13

Gentleman's stable guide, containing a familiar description of the American stable, the most approved method of feeding, grooming and general management of horses, with directions for the care of carriages, harness, etc. 1870. Porter.

Meysey-Thompson, Richard Frederick. 636.1 M65

The horse; its origin and development, combined with stable practice. 1911. Arnold.

"Scheme... is to trace the history of the horse from the earliest ages; to continue its evolution to modern times, when the various breeds in Great Britain have been brought to a high state of perfection... and also to give in detail the methods of stable practice and training in vogue at present as practised in my own stable." *Preface.*

Has chapter on "Origin of American trotting horses."

Parlin, Simon W. r 636.1 P24

The American trotter; a treatise on his origin, history and development, with a preface by P. C. Kellogg. 1905. Amer. Horse Breeder Pub. Co.

Timmis, Reginald S. qr 636.1 T47

Modern horse management, introduction by Major-General F. L. Lessard, preface by Alfred Savigear. [1915.] Stokes.

Much general information about horses and their care.

Mumford, Herbert Windsor. 636.21 M96

Beef production. Ed.2. 1908. Privately printed.

Based largely on extensive feeding experiments conducted by the author, who is (1908) professor of animal husbandry, University of Illinois.

Sheep. Swine

Craig, John Alexander. 636.3 C86

Sheep-farming in North America. 1912. Macmillan. (Rural science series.)

Three of the chapters of this book are written by H. P. Miller.

Manual of practical instruction. By a recognized authority.

Kleinheinz, Frank. 636.3 K31

Sheep management; a handbook for the shepherd and student. 1911. Privately printed.

Brief guide, discussing only practical problems.

Lydekker, Richard. 636.3 L98

The sheep and its cousins. 1912. Allen.

For the student of natural history rather than the sheep breeder, though including much regarding the different breeds.

Mansell, Alfred. r 636.3 M34

Formation of pure-bred flocks [sheep] and their subsequent management. Ed.2. 1901. Cooper.

Montana—Sheep commissioners board. r 636.3 M84

Annual report [for the years ending November 30], 1909-14.

For earlier reports see preceding catalogue, v.4, 6.

Wing, Joseph Elwyn. 636.3 W78

Sheep farming in America. Rev. ed. 1909. Sanders.

Practical directions, dealing with breeds and breeding, selection, management and diseases of sheep.

Day, George Edward, b. 1863. 636.4 D33

Productive swine husbandry. 1913. Lippincott. (Lippincott's farm manuals.)

"Swine literature," p.317.

"Author has worked with a twofold purpose... to prepare a book which will serve

Day, George Edward, b. 1863—continued.

636.4 D33

as a text-book for agricultural students, and to place at the disposal of the busy farmer a reference book, which will give him, in concise form, the findings of the best experiment stations in regard to the problems involved in the successful handling of swine." *Preface.*

Poultry

Corning, Edward, & Corning, Gardner.

636.5 C82

The Corning egg farm book, by Corning himself; being the complete and authentic story of the Corning egg farm from its inception to date, together with a full description of the method and system that have made this the most famous poultry farm in the world. 1912. Privately printed.

Describes large-scale methods on a farm devoted exclusively to single-comb white leghorns.

Cyphers Incubator Company, Buffalo, N. Y.

636.5 C98

Poultry plant construction; complete building plans (drawn to scale) of incubator cellars, brooder houses for chicks, etc., with bills of material in detail and full instructions on building. 1904. (Cyphers series on practical poultry keeping, book no.7.)

Cyphers Incubator Company, Buffalo, N. Y.

q 636.5 C98pc

Profitable care and management of poultry; a book of practical advice on what to do and how to do it. Ed.2, rev. 1911. (Cyphers series on practical poultry keeping, book no.2.)

Cyphers Incubator Company, Buffalo, N. Y.

q 636.5 C98pe

Profitable egg farming; a practical book. 1903. (Cyphers series on practical poultry keeping, book no.4.)

Cyphers Incubator Company, Buffalo, N. Y.

q 636.5 C98pm

Profitable market poultry; a practical book on how and what to do to make market poultry highly profitable. 1903. (Cyphers series on practical poultry keeping, book no.5.)

Cyphers Incubator Company, Buffalo, N. Y.

q 636.5 C98pf

Profitable poultry feeding; a compilation of the methods of feeding practiced by some of the most successful poultrymen. 1907. (Cyphers series on practical poultry keeping, book no.8.)

Cyphers Incubator Company, Buffalo, N. Y.

q 636.5 C98ph

Profitable poultry houses and appliances. 1911. (Cyphers series on practical poultry keeping, book no.3.)

Cyphers Incubator Company, Buffalo, N. Y.

q 636.5 C98pk

Profitable poultry keeping in all branches; a general treatise on practical poultry keeping. 1911. (Cyphers series on practical poultry keeping, book no.1.)

Drevenstedt, John Henry, ed.

q 636.5 D8r

Standard-bred Leghorns; their origin and history and practical qualities, the standard requirements, how to mate and breed for best

Drevenstedt, John Henry, ed.—continued. q 636.5 D81
 results, with a chapter on non-standard varieties; contributed to by the best known and most expert breeders and judges in America. 1911. Reliable Poultry Journal Pub. Co. & Amer. Poultry Pub. Co.

Papers covering principles of breeding and modern practice in commercial poultry farming. Fully illustrated.

International Correspondence Schools, Scranton, Pa. 636.5 I248
 English fowls, French, Polish and miscellaneous fowls, game fowls, Mediterranean fowls, bantam fowls, fowls of the pheasant family, ducks and geese. 1912. International Textbook Co. (International library of technology, v.117.)

The same.....r 636.5 I24e

International Correspondence Schools, Scranton, Pa. 636.5 I248p
 Poultry farms, combination poultry farm, poultry appliances, enemies of poultry, diseases of poultry, turkeys, peafowls, guinea fowls and pheasants, water fowls, squabs. 1910-11. International Textbook Co. (International library of technology, v.115.)

International Correspondence Schools, Scranton, Pa. 636.5 I248po
 Poultry houses, poultry-house management, poultry feeding, natural incubation, natural brooding, artificial incubation, artificial brooding, laying hens, market eggs, market poultry. 1910. International Textbook Co. (International library of technology, v.114.)

The same.....r 636.5 I24

International Correspondence Schools, Scranton, Pa. 636.5 I248s
 Standard-bred poultry, standard-bred poultry management, poultry judging, American fowls, Asiatic fowls, Belgian, Dutch and German fowls. 1912. International Textbook Co. (International library of technology, v.116.)

The same.....r 636.5 I24s

Jackson, Homer Wesley. 636.5 J12
 Chicken money; how to make farm flocks profitable. 1913. Stockman-Farmer Pub. Co. Pittsburgh.

Laurie, Duncan Forbes. 636.5 L37
 Poultry foods and feeding; a manual for all breeders. 1912. Cassell.
 Scientific in treatment, studying and explaining the values and compositions of poultry foods, and the food requirements of various breeds of fowls.

Lewis, Harry Reynolds. 636.5 L67p
 Productive poultry husbandry; a complete text dealing with the principles and practices involved in the management of poultry. 1913. Lippincott. (Lippincott's farm manuals.)

"Miscellaneous bibliography," p.516.

Written partly with reference to poultry raising as a side issue in general agriculture, but deals to a great extent with large-scale installations, marketing, advertising, poultry records and accounts.

Robinson, John Henry. 636.5 R55p
 Principles and practice of poultry culture. 1912. Ginn. (Country life education series.)

"Bibliography," p.587-596.

Valentine, Carrie Syron. 636.5 V15b
The beginner in poultry; the zest and the profit in poultry growing.
1912. Macmillan.

"Glossary of breeder's special terms," p.431-434.

Practical and trustworthy, advancing no fads and making no extravagant claims.
Deals with American breeds.

[Valentine, Carrie Syron.] 636.5 V15i
Indian runner duck book; the only authoritative American book
about this marvelous egg machine. 1911. Valentine.

Poorly printed pamphlet giving fragmentary information. In favor of breeding to
English standard.

Wheeler, Arthur Stanley. 636.5 W61
Profitable breeds of poultry. 1912. Outing. (Outing handbooks.)

Contents: Stock, good and bad.—The Plymouth rocks.—The Wyandottes.—The
Orpingtons.—The Rhode Island red.—The Mediterraneans.—Cornish.—Housing and
management.

The brief advice on housing and management is quite sensible. Assures the reader
that "the raising of poultry is not a get-rich-quick scheme. Viewed sanely, it is either
a pleasure-giving avocation, or a handy method of deriving generous interest from an
investment of money, skill, and persistent and sympathetic labor." *Chapter 8.*

Wittman, William Theodore. 636.5 W82
Increasing the winter yield of eggs. 1912. (Pennsylvania—Agriculture,
Department of. Bulletin no.219.)

The same. (In Pennsylvania—Agriculture, Department of. Bulletin
no.219.).....r 630.6 P399b

Greiner, Tuisco. q 636.51 G87
Capons for profit. 1903. (Cyphers series on practical poultry keep-
ing, book no.6.)

Published by Cyphers Incubator Company, Buffalo, N. Y.

Macleod, Alice. 636.56 M19
Pigeon raising. 1913. Outing. (Outing handbooks.)
Brief outline of practical methods.

Dogs. Cats

Leighton, Robert, b. 1859. 636.7 L56
Dogs and all about them. 1910. Cassell.

Concise work, mainly descriptive. Gives standard of perfection for various breeds,
but pays slight attention to breeding and training. Includes non-sporting and utility
breeds; hounds, gun dogs and other sporting breeds; terriers; toy and miniature breeds.

Maxtee, John. 636.7 M52d
The dog; all that is necessary to know about choosing, feeding,
curing and training one. 1911. Penn Pub. Co.

Barton, Frank Townend. 636.8 B28
The cat; its points and management in health and disease. [1910.]
Jenkins.

Special attention to diseases. By a member of Royal College of Veterinary Surgeons.

Chapin, Howard Millar. r 636.8 C36
Murthy's cottage; a biographical dictionary of cats in literature.
1911. Privately printed.

Canada—Conservation commission.

q 636.9 C16

Fur-farming in Canada, by J. W. Jones. 1913. Mortimer.

Prepared for the Committee on fisheries, game and fur-bearing animals of the Commission of conservation of Canada.

Practical manual, with statistics and historical notes.

637 Dairy and dairy products

For Milk inspection, see 614.32

Eckles, Clarence Henry.

637 E25

Dairy cattle and milk production; prepared for the use of agricultural college students and dairy farmers. 1912. Macmillan.

Brief guide to dairy farming, describing the important breeds and discussing selection, feeding and management.

Gurler, Henry Benjamin.

637 G97

The farm dairy. 1908. Breeder's Gazette.

Simple, practical book on selection and treatment of cows and handling of milk.

Wing, Henry Hiram.

637 W78a

Milk and its products. Rev. & enl. ed. 1913. Macmillan. (Rural science series.)

"References to agricultural experiment station reports and bulletins," p.404-415.

Larsen, Christian, & White, William, B. S.

637.1 L33

Dairy technology. 1913. Wiley.

Contents: Milk as a food.—City milk supply.—Ice cream making.—By-products of the creamery and cheese factory.

Concise, moderately technical treatise on milk products.

Douglas, Loudon McQueen.

637.100416 D75

The bacillus of long life; a manual of the preparation and souring of milk for dietary purposes, together with an historical account of the use of fermented milks from the earliest times to the present day, and their wonderful effect in the prolonging of human existence. [Rev. ed.] 1911. Putnam. (Science series.)

"Senility it is claimed is due to auto-intoxication—or in other words, the poison derived from putrefactive micro-organisms which inhabit the digestive tract. To Metchnikoff is due the credit of working out the idea of combating these micro-organisms by introducing other and stronger microbes which should be able to drive out or destroy the poisonous bacteria. The *Bacillus Bulgaris* has, after many experiments, been adopted as the most potent of the various organisms experimented with." *American journal of nursing*, 1912.

638 Bees. Silkworms

King, N. H. & King, H. A.

r 638 K26

Bee-keeper's text-book; being a complete reference book on all practical subjects connected with the culture of the honey bee, in both common and movable-comb hives. Rev. & enl. ed. 1868. Thomas.

Miller, Charles C.

638 M69

Fifty years among the bees. 1911. A. I. Root Co.

Standard work by a recognized authority. Partly history and partly practical instruction. Popular in style.

- Root, Amos Ives, & Root, E. R.** q 638 R68a3
A B C and X Y Z of bee culture; a cyclopedia of everything pertaining to the care of the honey-bee. 1913. A. I. Root Co.
An earlier edition has title "A B C of bee culture."

- Phillips, Everett Franklin.** 638.1 P51
Beekeeping; a discussion of the life of the honeybee and of the production of honey. 1915. Macmillan. (Rural science series.)
Thoroughly scientific book. Without neglecting the practical problems of bee culture, it presents a fairly extensive entomological study. Gives some botanical information concerning honey-plants.

- Corticelli Silk Mills, Florence, Mass.** 638.2 C82
Silk; its origin, culture and manufacture. [Rev. & enl. ed.] 1911.
Booklet giving a well illustrated description of various processes.

639 Fisheries. Game birds

- Canada**—Conservation commission. qr 639 C16
Sea-fisheries of eastern Canada. 1912.
Proceedings of a meeting of the Committee on fisheries, game and fur-bearing animals of the Commission of conservation, held at Ottawa, June 4-5, 1912.

- Maine**—Inland fisheries and game, Commissioners of. r 639 M26
Report, 1912, 1914-15. 1913-16.
In 1895 the office of Commissioner of fisheries was divided into the Commissioners of inland fisheries and game and the Commissioners of sea and shore fisheries.
For reports for 1907, 1910 see preceding catalogue, v.6.

- Massachusetts**—Fisheries and game, Commissioners of. r 639 M45
Report (46th-50th), 1911-15. 1912-16.
For reports for 1905-10 see preceding catalogue, v.6.

- New Jersey**—Fish and game commissioners, Board of. r 639 N26
Annual report for the year ending October 31st, 1913. 1914.
For reports for 1903-09, 1911 see preceding catalogue, v.6.

- New Jersey**—Fish and game commissioners, Board of. r 639 N26f
Fish and game laws of New Jersey, 1913. [1913.]

- Pennsylvania**—Fisheries department. r 639 P399
Bulletin. no.1-10. 1904-10.
No.5 wanting.
Issued irregularly.

- United States**—Census office. (12th qr 317.3 U25c12sp v.27
Census: 1900.)
Fisheries of the United States, 1908. 1911. (In its Special reports, v.27.)

- United States**—Fisheries bureau. r 639 U253a
Alaska fisheries and fur industries in 1911-16. 1912-17.
"Fur seal fisheries of Alaska" (r 599.75 U2532) and "Fisheries of Alaska" (r 639 U253) formerly issued as separate reports are now included in this report.

- United States**—Fisheries bureau. r 639 U253e
Economic circular, Sept. 1912-Nov. 29, 1916. no.2-22. 1912-16.
Issued irregularly.

- United States**—Fisheries bureau. r 639 U253f
 [Fishes and mollusks; documents issued by the Fisheries bureau.
 v.1-2. 1912-14.]
- United States**—Fisheries bureau. r 016.639 U25
 List of publications of the Bureau of fisheries available for distribution, 1916. 1916.
- United States**—Fisheries bureau. qr 639 U253r
 Report of Alaska investigations in 1914, by E. L. Jones. 1915.
 Detailed study and survey of the fishery industries of Alaska, and of the status of the fur-seal fisheries and the minor fur-bearing animals. The object of the report is to aid the government in formulating the most beneficial policy. Well illustrated.
- Verrill, Alpheus Hyatt.** 639 V28
 Real story of the whaler; whaling, past and present. 1916. Appleton.
 Popular account, dealing with the actual life of the whalers rather than with the whaling industry.
- Wisconsin**—Fisheries, Commissioners of. r 639 W81
 Biennial report, 1910/12-1912/14. 1912-14.
 For reports for 1901-1908/10 see preceding catalogue, v.6.
- Cobb, John Nathan.** r 639.111 C63
 Salmon fisheries of the Pacific coast. 1911.
 Issued by the United States fisheries bureau.
 Presents historical and geographical aspects of the subject, and discusses methods of the fisheries. Gives complete data for the United States coast and Alaska for 1909, and partial figures for Canada.
- Meehan, William Edward.** 639.2 M56
 Fish culture in ponds and other inland waters. 1913. Sturgis.
 (Farmer's practical library.)
 Author was formerly fish commissioner of Pennsylvania and is (1913) superintendent Public Aquarium, Philadelphia. Book deals in a practical manner with pond and hatchery construction, and both pond and aquarium culture of various breeds of fish. Has chapter on frogs.
- United States**—Fisheries bureau. r 639.2 U25b
 Bureau of fisheries and its station at Woods Hole, Mass. [1915.]
- United States**—Fisheries bureau. r 639.2 U25
 Distribution of fish and fish eggs during the fiscal year [ending June 30], 1912-16. 1912-16.
 For volumes for 1909-10 see preceding catalogue, v.6.
- Stone, Livingston.** r 639.2025 S87
 Domesticated trout; how to breed and grow them. Ed.6. 1901.
 Privately printed.
 "Books on fish culture," p.356-362.
- United States**—Fisheries bureau. 639.211 U25
 Fish ponds on farms, by R. S. Johnson and M. F. Stapleton. 1915.
 (Document no.826.)
The same.....r 639.211 U25
 Appendix 11 to the Report of the commissioner of fisheries for 1915.
 Management of both natural and artificial ponds.
 "Exclusive reference to the spiny-rayed or warm-water fishes which are especially adapted to culture in ponds." *Introduction*.

Job, Herbert Keightley.

639.30 J33

Propagation of wild birds; a manual of applied ornithology, treating of practical methods of propagation of quails, grouse, wild turkey, pheasants, partridges, pigeons and doves, and waterfowl in America, and of attracting and increasing wild birds in general, including song-birds. 1915. Doubleday.

640 Domestic economy

Bibliography

Seattle, Wash.—Public library.

r 016.64 S44

List of books for women in the home and in business. 1913. (Seattle, Wash.—Public library. Reference list no.6.)

United States—Publications division. (Department of agriculture.)

r 016.64 U25

Government publications of special interest to women. [1914.]

Reprint from Report no.104, office of the secretary.

General works

American Home Economics Association.

r 640 A51

Syllabus of home economics; prepared by Committee on nomenclature and syllabus. 1913. (Ellen H. Richards Memorial Fund. Publication no.1.)

Beecher, Mrs Eunice White (Bullard).

640 B37

The law of a household. [1912.] Small.

Outlines a system for the efficient management of a large household employing many servants and schedules the work of each servant. Useful to the large householder and suggestive to the smaller home-keeper.

Bruère, Mrs Martha Bensley, & Bruère, R. W.

640 B82

Increasing home efficiency. 1913. Macmillan.

Curtis, Mrs Isabel (Gordon).

640 C93

The making of a housewife. 1906. Stokes.

On efficient and economical house management. Includes chapters on planning work, marketing, canning, gas-stoves and refrigerators, health and comfort in hot weather, house cleaning, and the winter's food supply.

Foster, Olive Hyde.

j 640 F81

Housekeeping for little girls. 1912. Duffield.

Helpful book for girls who want to learn about taking care of a house. Tells the right way to set a table, how to plan economical meals and the best ways of cooking the things that really belong together, how to decorate the house for the Christmas holidays and why and how to fight dust and flies.

Franks, Mrs Thetta Quay.

r 640 F88

Efficiency in the household; a book for every woman. 1915. Doubleday.

Frederick, Mrs Christine.

640 F89

The new housekeeping; efficiency studies in home management. 1913. Doubleday.

"Bibliography of home economics," p.258-266.

- Gilman, Elizabeth Hale.** 640 G42
Housekeeping. 1911. Doubleday. (Children's library of work and play.)
The same.....j 640 G42
Suggestions about all sorts of housekeeping matters, such as planning work, keeping accounts, care of fittings and furniture, marketing, cooking, washing and ironing.
- Keech, Mabel Louise.** 640 K15
Training the little home maker by kitchengarden methods. 1912. Lippincott.
Outline of a two years' course of lessons in housekeeping, designed especially for girls from eight to eleven years of age.
- Kinne, Helen, & Cooley, A. M.** 640 K27
Shelter and clothing; a textbook of the household arts. 1913. Macmillan.
Contents: The home.—Textiles and clothing: Sewing and garment making; Millinery.
Bibliography, p.8-9.
"Deals with the home, its ideals in organization, its sanitation, decoration and furnishing; also with the questions of textiles, sewing and dressmaking." *Preface.*
"Presupposes a knowledge of sewing and other phases of the work of the average elementary school and does not present the elementary stitches and processes." *Suggestions to teachers, p.viii.*
- Richards, Mrs Ellen Henrietta (Swallow), & Elliott, S. M.** 640 R39c2
Chemistry of cooking and cleaning; a manual for housekeepers. [Ed.3.] 1914. Whitcomb.
"Books of reference," p.181-182.
Gives for non-scientific readers practical information as to the chemical composition of the different foods, how they are changed by cooking, and the proportion of the different elements needed in diet, also tells what dust, grease and all sorts of spots and stains really are and what will most effectually remove them.
- Talbot, Marion, & Breckinridge, S. P.** 640 T15
The modern household. 1912. Whitcomb.
Contents: The household as a social unit.—The household as the centre of consumption.—Shelter.—Food.—Clothing.—Management.—Domestic service.—Education.—The activities of the household.—The household and the community.
"Bibliography" at the end of each chapter.

Kitchens. Hotels

- Child, Mrs Georgie (Boynton).** 640.213 C43
The efficient kitchen; definite directions for the planning, arranging and equipping of the modern labor-saving kitchen, a practical book for the home-maker; ed. and arranged by Louise Boynton. 1914. McBride.
Treats of built-in conveniences, heating the kitchen, choice of fuel for cooking, necessary equipment, the laundry problem and the business side of the kitchen.
- Richards, Paul.** 640.24 R41a
The lunch room; devoted to plans, equipment, management, accounting, food and drink sales, bills of fare, receipts, the economical operation and quick service of wholesome foods and drinks. Ed.2, rev. & enl. 1916. Hotel Monthly.
The same. 1911.....640.24 R41

Periodicals

Cornell University—College of agriculture. r 640.5 C82

Cornell reading-courses; lesson for the farm home, March 1912-date. 1912-date.

Includes farm house, rural life, food, sanitation, garden and canning club series. Numbers for Dec. 1914 and May 1915, wanting.

Housekeeping Experiment Station, Darien, Conn. 640.5 H83

Housekeeping efficiency. 1911. Barnard. (Bulletin, no.11-14.)

This station is maintained by Charles and Mary Barnard for the purpose of examining and testing, under the most simple housekeeping conditions, any new materials, methods, utensils and appliances, used in cooking and general housework, that promise to make housekeeping less laborious, more efficient and more economical. Its bulletins are issued quarterly.

Illinois University—Department of household science. r 640.5 I22

[Publications], June 1912-June 1914, Nov. 1915. 1912-15.

Education

Andrews, Benjamin Richard. 640.7 A56

Education for the home. 4 pts. in iv. 1914-15. (United States—Education bureau. Bulletin, 1914, no.36-39.)

The same. (In United States—Education bureau. Bulletin, 1914, no.36-39.) r 370 U25 1914, no.36-39

Contents: Introductory survey: Equipment for household arts.—The states and education for the home.—Rural schools.—Elementary schools.—High schools.—Normal schools.—Technical institutes.—Various agencies and organizations.—Colleges and universities.—List of references on education for the home.—Cities and towns teaching household arts.

Boughton, Alice C. 640.7 B65

Household arts and school lunches. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

England—Education department. 640.7 E64

Interim memorandum of the teaching of housecraft in girls' secondary schools. 1911.

"Housecraft teaching in secondary schools in foreign countries," p.67-71.

641 Cookery

Artusi, Pellegrino, comp. 641 A79

La scienza in cucina e l'arte di mangiar bene; manuale pratico per le famiglie. 1913.

Barroll, Mrs Mary Louise Hoyt. 641 B26

Around-the-world cook book; the culinary gleanings of a naval officer's wife. 1913. Century.

Author does not confine herself to American cookery but introduces various receipts from foreign countries, collected during her travels. Pt.2 contains useful information about care of furniture, cosmetics, perfumes, simple remedies, and first aids in emergencies.

Beeton, Mrs Isabella Mary. 641 B38

International cookery. New ed. [1911.] Platt.

New edition of a well-known English cook-book. Includes popular and typical dishes of foreign countries and indicates cost of materials required in each receipt.

- Bevier, Isabel.** r 640.5 I22 1913
Some points in the making and judging of bread. 1913. (In Illinois University—Department of household science. Publications, March 1913.)
- Burrell, Caroline Benedict, (pseud. Caroline French Benton).** 641 B94
Easy meals. 1913. Estes.
"Suggestions and recipes for easily prepared meals and menus for the different seasons. Although there is a chapter on country markets the book as a whole is more for those who have good city markets at their command. Reprinted from *Harper's Bazar*." *A. L. A. booklist, 1913.*
- Campbell, Matilda Gertrude.** 641 C15
Textbook of domestic science for high schools. 1913. Macmillan.
"Reference books," p.208.
Concise text-book intended as a laboratory manual in the school and as a practical cook-book in the home. Confined mainly to foods, nutrition and cooking. Does not include sanitation, chemistry of cleaning, clothing, shelter and other branches of domestic science.
- Condit, Elizabeth, & Long, J. A.** 641 C74
How to cook and why. 1914. Harper.
Explains the underlying principles of cooking. For housekeepers and girls of high school age.
- Farmer, Fannie Merritt.** 641 F24f2
Food and cookery for the sick and convalescent. [Rev. & enl. ed.] 1913. Little.
Discusses the feeding of children and adults, gives many receipts for beverages and food, and dietaries useful in special diseases, particularly diabetes.
- Farmer, Fannie Merritt.** 641 F24n
A new book of cookery. 1912. Little.
Nearly 900 receipts, supplementing the "Boston cooking-school cook book" by the same writer.
- Gienandt, Fritz Ludwig.** q 641 G37
Twentieth century book for the progressive baker, confectioner, ornamentor and ice cream maker. 1912. Privately printed.
- Giovanni, Vialardi.** 641 G44
Cucina borghese, semplice ed economica; servizio alla borghese, francese e russa. 1904.
- Greer, Carlotta Cherryholmes.** 641 G85
Text-book of cooking. 1915. Allyn.
"Books for reference," p.395-396.
- Gruszecka, Marya.** 641 G94
Illustrowany kucharz krakowski dla oszczędných gospodyń. 641 H28a
- Harper's cook book encyclopædia;** arranged like a dictionary, and compiled under the direction of the editor of Harper's bazar. 1912.
Contains also "Paper-bag cookery," by Margaret Soundstrom and M. W. Mount.
Great advantage of the book is its alphabetic arrangement, which obviates the necessity of using an index.
- Herrick, Mrs Christine (Terhune).** 641 H471
Like mother used to make. 1912. Estes.
The receipts for time-honored dishes, chiefly Southern, are supplemented by chapters on more general subjects, such as "System in housekeeping" and "Home dinners without a servant."

- Hill, Mrs Janet McKenzie.** 641 H55b
Book of entrées, including casserole and planked dishes. 1911.
Little.
- 641 I13
Iced drinks; a collection of choice recipes for healthful and delicious beverages. [1911. Nickerson.]
With this is bound "Frozen desserts; a collection of unusually good receipts for ice cream, sherbets and ices."
- Isola, Antonia.** 641 I29
Simple Italian cookery. 1912. Harper.
- Johnson, Mrs Nannie Talbot.** 641 J362
Cake, candy and culinary crinkles; a companion to "What to cook and how to cook it." 1912. Pentecostal Pub. Co.
- Johnson, Mrs Nannie Talbot, comp.** 641 J362w
What to cook and how to cook it; a book containing directions for cooking in its various forms, with nearly 1000 receipts from the simplest and most practical to the higher order and more ornamental dishes. [Ed.13.] 1899. Pentecostal Herald Press.
- Jones, R. Henry.** 641 J41
Experimental domestic science. [1912.] Lippincott.
Devoted mainly to examination of character and constituents of the more common food-stuffs. Much experimental work is given. Not accurate in all particulars.
- Kinne, Helen, & Cooley, A. M.** 641 K27
Foods and household management; a textbook of the household arts. 1914. Macmillan.
References, p.8-9.
For secondary schools. Treats of foods, their production, sanitation, cost, nutritive value, preparation and serving; also of household accounts, methods of buying, housewifery, and laundering. About 160 receipts and many experimental exercises.
- Larned, Mrs Linda (Hull).** 641 L32n
The new hostess of the day. 1913. Scribner.
Chiefly a cook-book, with introductory directions for serving.
- Maria, Anna.** 641 M38
Il nuovo re dei cuochi che contiene la cucina grassa, magra e d'olio, serve pranzi all' uso italiano, francese, tedesco, inglese, russo e spagnolo, coi migliori metodi per conserve, gelati, rosoli, ecc. Ed.2. [1899.]
- Neil, Marion Harris.** 641 N21
How to cook in casserole dishes. 1912. McKay.
En casserole is a term applied to dishes cooked and served in the same earthenware pot or utensil. For such dishes the book supplies numerous receipts.
- Ochorowicz-Monatowa, Marya.** 641 O13
Uniwersalna książka kucharska. Ed.2, enl. 1909.
- Oregon—Agricultural college, Corvallis.** r 641 O28
Bulletin on camp cookery, for special use of forest rangers, campers and sportsmen, by A. B. Milam and R. M. Smith. [Ed.2.] 1913. (Extension ser.3, no.1.)
- Telford, Emma Paddock.** 641 T27
Standard paper-bag cookery. 1912. Cupples.

United States—Government hospital for insane. r 641 U253

Lessons in cooking, theoretical and practical, for the sick and convalescent, for the use of the cooking class of the Nurses' training school, Government hospital for the insane. 1913.

Finck, Henry Theophilus. 641.1 F49

Food and flavor; a gastronomic guide to health and good living. 1913. Century.

Contents: Ungastronomic America.—Vital importance of flavor.—Our denatured foods.—The science of savory cooking.—A noble art.—The future of cooking.—French supremacy.—Epicurean Italy.—German and Austrian delicacies.—British specialties.—Gastronomic America.—Commercial value of flavor.—Gastronomic value of odors.

"One of the main objects of the present volume is to show that we have the material for the making of an even more gastronomic nation than the French are, and that Americans...can be taught to eat in a leisurely way and to refuse to accept anything that lacks appetizing flavor." *Preface.*

642 Confectionery

Glover, Ellye Howell. 642 G51

"Dame Curtsey's" book of candy making. 1913. McClurg.

About 175 simple receipts.

Hall, Mary Elizabeth. 642 H17

Candy-making revolutionized; confectionery from vegetables. 1912. Sturgis.

"Describes a new process for making candy, substituting for harmful materials and colorings, such as glucose, aniline dyes, plaster of Paris, etc., fondants and pastes made of common vegetables, specially potato. General directions are followed by recipes for many kinds of decorative candies." *A. L. A. booklist, 1913.*

643 Serving. 645 Fireless cooker

Allen, Lucy Grace. 643 A42

Table service. 1915. Little.

Caloric Company. 645.41 C13

Caloric book of recipes; a compilation of more than 300 superior recipes, including soups, fish, meats, vegetables, cereals, sauces, bread, salads, pies, puddings, cake, fruits and preserves; especially adapted to the improved Caloric cookstove. Ed.11. 1914.

Trade literature on special type of fireless cooker which uses soapstone radiators.

646 Sewing. Knitting. Crocheting

Allington, Sara May. 646 A43

Practical sewing and dressmaking. 1913. Estes.

Detailed instruction about stitches, measurements, and cutting and making dresses. Designed to aid any one taking up dressmaking as a business.

Archer, Effie Archer. 646 A67

Needlecraft. 1911. Doubleday. (Children's library of work and play.)

The same.....j 646 A67
Includes different kinds of embroidery, easy lace stitches, stenciling, leather work, drawn-work, crocheting, knitting and bead work.

Baldt, Laura Irene.

646 B19

Clothing for women; selection, design, construction; a practical manual for school and home. 1916. Lippincott. (Lippincott's home manuals.)

Contains references.

Blackmore, Betsy L.

646 B51

The A B C of cutting and making garments for everyday needs; a practical manual showing how to draw the pattern, place it on a specified length of material, cut out and make the garments in the simplest possible manner. 1913. Longmans.

Bryner, Edna.

646 B84

Dressmaking and millinery. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Report on working conditions in these trades in Cleveland and opportunities which the industry offers to young people.

Butterick Publishing Company.

q 646 B98

The dressmaker; a complete book on all matters connected with sewing and dressmaking, from the simplest stitches to the cutting, making, altering, mending and caring for the clothes. 1911.

Dillmont, Thérèse de, ed.

646 D58

Encyclopedia of needlework. Rev. & enl. ed. [1890? Brustlein.] (D. M. C. library.)

Hettich, Lola Burks, ed.

q 646 H49a

Priscilla wool crochet book; a selection of useful articles from the Modern Priscilla, with several new designs never before published. Rev. ed. 1912. Priscilla Pub. Co.

Jessup, Anne Lowden, ed.

646 J29

Sewing book, containing complete instructions in sewing and simple garment-making, for children in the primary and grammar grades. 1913. Butterick Pub. Co.

Each lesson is illustrated.

Klickmann, Flora, ed.

646 K32

Modern knitting book. [1916.] Stokes. (Home art series.)

Illustrated manual, advertising the materials of a single manufacturer.

Swanson, Margaret, & Macbeth, Ann.

646 S97

Educational needlecraft, with a preface by Margaret McMillan. 1912. Longmans.

"The two authors...begin with very simple lessons illustrated with diagrams adapted to a little girl of six years old, and go on gradually increasing their demands on the intelligence and skill of their pupil until she becomes an expert needlewoman." *Spec-tator*, 1912.

647 Household expenses. 648 Laundry

Brookman, Thirmuthis Amy.

647.1 B77

Family expense account, including problems of investment and expenditure. 1914. Heath.

Chambers, Mrs Mary Davoren (Molony). 648 C35

Guide to laundry-work; a manual for home and school. 1915. Boston Cooking-School Magazine Co.

Clayton, Ellis. 648 C55

Manual of modern steam laundry work, for the use of practical launders, finishers, manufacturers, students and all interested in chemico-textile industries. 1912. Simpkin.

Describes processes and machinery actually used in steam laundries. Some attention is also given to principles and to materials.

Wetenhall, Louise. 648 W57

Practical laundry work for home and school, with a foreword by Mrs Burgwin. [1915.] Dutton.

British book on hand methods of washing, drying and ironing various kinds of goods. Considerable attention to stain removal.

649 Nursery. Sickroom

American Association for Study and Prevention of Infant Mortality. 649 A51

Care of the baby [report] prepared by a committee of the American Association for the Study and Prevention of Infant Mortality and presented to the association at its annual meeting held in Washington, D. C. Nov. 14-17, 1913. 1914. (United States. 63d cong. 2d sess. House. Doc. no.919.)

Being supplement no.10 to the Public health reports, Dec. 19, 1913, of the United States public health service.

The same.....r 649 A51

Griffith, John Price Crozer. 649 G89a

Care of the baby; a manual for mothers and nurses, containing practical directions for the management of infancy and childhood in health and disease. Ed.5, rev. 1911. Saunders.

Reliable guide, easily understood, yet scientifically accurate.

Holt, Luther Emmett. 649 H74a

Care and feeding of children; a catechism for the use of mothers and children's nurses. Ed.6, rev. & enl. 1912. Appleton.

Hutchinson, Woods. 649 H97

We and our children. 1911. Doubleday.

Kerley, Charles Gilmore. 649 K19w

What every mother should know about her infants and young children. 1915. Hoeber.

Contents: Hygiene.—Maternal nursing.—Artificial feeding.—Food formulas for well infants.—Feeding from first to sixth year.—Diet after the sixth year.—Dentition.—Ailments.—First aid to the baby.—General instructions.—General considerations.—Dont's.—Formulas.

Wheeler, Marianna. 649 W61y

The young mother's handbook; home treatment, diet and physical training for children. 1914. Harper.

Author has had 15 years of hospital experience in New York city.

United States—Children's bureau. r 649.1 U25

Care of children series. no.1-2. 1913-14.

For contents see Contents book kept at the reference desk.

Coolidge, Emelyn Lincoln. 649.5 C78

The home care of sick children; a guide for mothers in the care of sick children. 1916. Appleton.

650 Methods of communication Business

Bibliography

Ball, Sarah B. *comp.* qr 016.65 B21

Sixteen hundred business books; arranged by authors, by titles and by subjects; comp. by S. B. Ball in charge of the Business branch, under the supervision of J. C. Dana, librarian Free public library of Newark, New Jersey, chairman of the committee on libraries of the Associated Advertising Clubs of the World; revised and enlarged to 2100 titles by L. H. Morley and S. H. Powell. 1916. Wilson.

Business Book Bureau, New York. r 016.65 B96

What to read on business efficiency. 1912. [Kalkhoff Co.]

Detroit, Mich.—Public library. r 016.65 D48

Books for business men. 1914.

Societies

National Business Congress (1st), Chicago, 1911. r 650.6 N15

Complete proceedings; a free and open national forum of industrial, commercial and financial interests under the auspices of the National Business League of America, 1911. Ed.3. 1912.

Commercial education

Eaton, Jeannette, & Stevens, B. M. 650.7 E19

Commercial work and training for girls. 1915. Macmillan.

"Bibliography," p.285-289.

"Though a local study prepared under the auspices of the Girls' Bureau, Cleveland, Ohio, and devoted to a rather detailed survey of conditions in the private, parochial, and philanthropic schools offering commercial work and in the offices of 133 establishments; the book with its generalizations and recommendations, should prove useful to all those working on the problems of vocational guidance and the preparation of the grade school child for work." *A. L. A. booklist, 1915.*

Illinois University. r 650.7 I22

Conference on commercial education and business progress, in connection with the dedication of the Commerce building, April 16-17, 1913. 1913.

Richter, Kurt Ernest.

r 650.7 R42

Commercial colleges in Germany. 1913.

Published under the auspices of the Special committee on commercial education of the Chamber of Commerce of the State of New York.

Rochester, N. Y. Chamber of Commerce.

r 650.7 R57

Survey of needs in commercial education. [1915.]

Stevens, Bertha Morton.

650.7 S84

Boys and girls in commercial work. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Contents: Different work for boys and girls.—A general view of commercial work.—Transportation and public utilities.—The retail store.—The wholesale business.—Manufacturing.—Banking.—Civil service.—The small office.—Wages.—Commercial training as a scheme of education.—The training Cleveland gives.—The results of undifferentiated training for boys and girls.—General recommendations for training.—How to train the girls.—How to train the boys.—A summary of training observations.

Thompson, Frank Victor.

650.7 T38

Commercial education in public secondary schools. 1916. World Book Co. (School efficiency series.)

Discussion of current problems, setting forth the necessity for readjustment of educational methods. Contains author's report on commercial schools and courses in New York city's public school system.

"The new commercial courses to be established must proceed primarily from the objective conditions of commerce, in so far as they are discernible and significant, and from the reasonable possibilities and legitimate aspirations of boys and girls; only secondarily must they proceed from those influences which we now fancy are school necessities." *Chapter 5.*

651 Office equipment. Methods

Davis, Annie E.

651 D31

The junior woman secretary; a guide to the secretarial profession for girls and young women. [1913.] Pitman.

Kilduff, Edward Jones.

651 K25

The private secretary; his duties and opportunities. 1916. Century.

Useful book, giving much helpful information regarding the scope and general nature of the work and the essential qualifications of a private secretary in the business or professional field, as well as definite instruction in the specific duties of the position. Brief section on filing correspondence.

Schulze, John William.

651 S39a

The American office; its organization, management and records. Ed.2. 1914. Ronald Press Co.

"Bibliography," p.130, 256.

The same. 1913. Key Pub. Co. 651 S39

"Bibliography," p.110, 222.

Deals more intimately than any work heretofore published with the detailed working of business offices. Discusses selection and training of employees, office appliances, arrangement, systematization and correspondence.

Spencer, Ellen Lane.

651 S74

The efficient secretary; practical suggestions, information, helps to stenographers and others wishing to become secretaries. 1916. Stokes.

Hudders, Eugene Russell. 651.5 H88

Indexing and filing; a manual of standard practice. 1916. Ronald Press Co.

"Written with the idea of codifying the rules covering the indexing and filing of records such as would ordinarily be found in commercial organizations. Some of its chapters are applicable to the filing of professional, semi-professional and institutional records, but these cannot, on account of the limitations of space, be full, and it is the intention of the author to cover these more specifically in supplemental publications." *Preface.*

652 Business correspondence. Penmanship

Ayres, Leonard Porter. 652 A98

Scale for measuring the quality of handwriting of adults. [1915.] (Russell Sage foundation—Education division. Pamphlet publications, no.138.)

The same. (In Russell Sage foundation—Education division. Pamphlet publications, no.138.) r 361.6 R91ep no.138

Bamburgh, William Cushing. 652 B21

Talks on business correspondence. 1916. Little.

Contents: Letters and letter-writing.—Sales campaigns by correspondence.—Relations with customers and public relations.—Mail and mailing.—Files and filing.

Readable book on the broad general subject of correspondence and the theory of filing and indexing. Author considers the subject of letter writing an intangible one in which complete, definite text-book instruction is not feasible, but in which the essential element is clear thinking. He neither imitates nor recommends the ordinary manuals of business letter writing, but advises rather the study of dictionaries, synonyms and correct composition.

r 658 M76 v.5

Correspondence, credits and traffic. 1916. Alexander Hamilton Institute. (In Modern business, v.5.)

Contents: Business correspondence, by G. B. Hotchkiss.—Credit and the credit man, by P. P. Wahlstad.—Traffic, by P. B. Kennedy.

Davis, Roy, & Lingham, C. H. 652 D32

Business English and correspondence. 1914. Ginn.

Elementary text-book, including brief information on writing of reports, advertisements and telegrams.

Gardner, Edward Hall. 652 G18

Effective business letters; their requirements and preparation, with specific directions for the various types of letters commonly used in business. 1915. Ronald Press Co.

Johnson, George L. & Stone, C. R. r 370.5 E44 v.16

Measuring the quality of handwriting. 1916. (In Elementary school journal, v.16, p.302-315.)

Contents: Our purposes in making a writing scale, by G. L. Johnson.—How the scale was made [and] The scale in use, by C. R. Stone.—A tentative scale for the measurement of hand writing.

———A tentative scale for the measurement of hand

writing.. r 652 J36

Salvo, D. 652 S18

Spanish and English commercial correspondence. Rev. & enl. ed. [1899.] Marlborough.

Spanish title reads "Correspondencia mercantil española é inglesa."

System Co. pub.

652 S99

How to write letters that win; how to build business letters that command attention, stir desire, bring orders, how to put the personal touch into a letter, handling inquiries, complaints and collections, actual letters that have brought results. Ed.9. 1911. (System "how books.")

Typewriters

New York (city)—Public library. Astor, Lenox
and Tilden foundations.

qr 016.6523 N26

List of works relating to the development and manufacture of type-writing machines. 1913.

The same. (In its Bulletin, v.17, p.697-708.)qr 017.1 N2611 v.17

653 Shorthand

Miller, Charles Montgomery.

653 M69

The Miller reading and dictation book written in Gregg shorthand. [Ed.2, enl.] 1907. Privately printed.

Pringle, Harry Polk.

653 P95

Pringle's ideal shorthand; a light-line phonography which responds to all requirements. Ed.2. 1915. Pringle Pub. Co.

New York State Stenographers' Association.

r 653.06 N26

Proceedings at the annual meeting (9th, 11th-12th, 14th-17th, 20th-40th), 1884, 1886-87, 1889-92, 1895-1915. 1884-1916.

[**Walker, C.**]

r 653.31 W16

Easy introduction to Byrom's Universal English short hand; being an abridgment of that celebrated system, particularly adapted for the use of schools and private tuition, by an eminent professor. 1825. Blake.

Lester, Francis E. & Barker, F. F.

653.52 L65

Adaptation of Graham's standard phonography to the Spanish language; designed for use as a text-book and for private study. 1900. Amer. Book Co.

"Addressed particularly to the competent Spanish scholar, who has also a practical knowledge of Graham's standard phonography, but the adaptation can readily be applied to other if not all Pitmanic systems." *Preface.*

Both authors have had experience as stenographers, and as instructors; one in Spanish, the other in Graham shorthand.

Pitman, Isaac.

653.61 P66t

Taquigrafía española; adaptación á la lengua española del sistema de fonografía del autor; para uso de escuelas de comercio, institutos y también para estudio personal. Ed.3. [1907.]

The same; key.653.61 P66t2

Added title-page in English.

Reed, Thomas Allen.

653.61 R28

French phonography; an adaptation of Pitman's shorthand to the French language. Ed.3. [1899.] Pitman.

"Intended for the use of English phonographers who have acquired a theoretical and practical mastery of the Pitmanic system as now written [1899]." *Preface.*

654 Telegraphy

Dub, Christoph Julius.

r 654 D85

Die anwendung des elektromagnetismus, mit besonderer berücksichtigung der neueren telegraphie und den in der deutschen telegraphenverwaltung bestehenden technischen einrichtungen. Ed.2. 1873.

Gibson, Charles R.

654 G36

How telegraphs and telephones work, explained in non-technical language. 1909. Seeley.

Popular in style. Gives principles of telegraphy and telephony, submarine telegraphy, wireless telegraphy and telephony, and induction coils.

Jenisch, P.

qr 654 J25

Haustelegraphie; eine gemeinverständliche anleitung zum bau von elektrischen haus-telegraphen-, telephon- und blitzableiter-anlagen. [1896.]

For the artisan and the amateur. Written with avoidance of mathematics. Describes installation in a practical way. Discusses microphone briefly.

Jones, Willis H.

654 J4rt

Telegraphy for beginners, the standard method; an authoritative book of instruction in the methods and forms most approved, with lessons; including the Morse and continental codes. 1910. Spon. (Model library series.)

Brief elementary book for the amateur operator. Gives lessons in handling sporting events and market reports. Author is (1910) wire chief, Western Union Telegraph Co., New York.

McNicol, Donald.

654 M21

American telegraph practice; a complete technical course in modern telegraphy, including simultaneous telegraphy and telephony. 1913. McGraw.

"References to printing telegraph literature," p.471-472.

Based on lectures to telegraph and telephone workers. Introduces mathematics only where necessary to a proper development of the subject, which it endeavors to present in such a way as to be intelligible to practical workers.

Martin, Thomas Commerford.

qr 317.3 U25c12sp v.7

Telephones and telegraphs, 1902. 1906. (In United States—Census bureau. Special reports, v.7.)

Meyer, Frederic Louis.

654 M65

Twentieth century manual of railway, commercial and wireless telegraphy. Ed.7, rev. & enl. 1914. Rand.

Thorough practical text-book for students and operators. Explains in detail the operator's work in various positions.

Noebels, J. and others.

qr 621.3 H23 v.12

Telegraphie und telephonie. Ed.2. 1907. (In Handbuch der elektrotechnik, v.12.)

United States—Signal office.

r 654 U25

Regulations for United States military telegraph lines, Alaskan cables and telegraph stations, 1915. 1915. (Manual no.2.)

For 1909, 1911 see preceding catalogue, v.6.

Vail, Alfred.

r 654 V13a

American electro magnetic telegraph, with the reports of Congress and a description of all telegraphs known employing electricity or galvanism. 1845. Lea.

Vail, Alfred.

r 654.09 V13

Early history of the electro-magnetic telegraph, from letters and journals, arranged by his son, J. C. Vail. 1914. Hine.

Radiotelegraphy

Collins, Archie Frederick.

654.1 C69m

Manual of wireless telegraphy and telephony. Ed.3, rev. & enl. 1913. Wiley.

"List of books on wireless telegraphy," p.261-270.

Elementary book for the operator. Describes instruments and apparatus, and their adjustment and use.

Collins, Archie Frederick.

654.1 C69

Plans and specifications for wireless telegraph sets. 2v. 1912. Spon. (Model library.)

v.1. Complete and detailed instructions for making an experimental set, also a one to five mile set.

v.2. Complete and detailed data for constructing a five to ten mile set, also a ten to 25 mile set.

In "Scientific American supplement," 1906-07, author discusses location and construction of 100 mile set.

Collins, Francis Arnold.

j 654.1 C71

The wireless man; his work and adventures on land and sea. 1912. Century.

Chapters explaining how wireless telegraphy works, about its different uses and the necessary equipment. Also gives an account of stirring wireless rescues and anecdotes of different operators. Illustrated with photographs and diagrams.

Edelman, Philip E.

654.1 E26a

Experimental wireless stations; their theory, design, construction and operation, including wireless telephony and quenched spark systems; a complete account of sharply tuned modern wireless installations for experimental purposes which comply with the new wireless law. Ed.3, rev. 1915. Privately printed.

Includes supplement for 1916.

The same. [Rev. ed.] 1914.....654.1 E26

"Simple and very practical exposition of the constructive details in experimental wireless-telegraph stations, intended for the use of amateur radio-telegraphists." *Electrical world*, 1913.

Fills an intermediate place between the small elementary manuals and the mathematical treatises on theory. Gives data and dimensions for construction of apparatus. A commendable feature is the use of line-drawing illustrations instead of manufacturers' cuts. Care is taken to comply with the United States government "Regulations governing radio communication."

Fleming, John Ambrose. 654.1 F62e
Elementary manual of radiotelegraphy and radiotelephony for students and operators. Ed.3. 1916. Longmans.

Much less exhaustive and less technical than his "Principles of electric wave telegraphy." Will serve as a useful introduction to the subject or as an adequate guide to those who desire a general knowledge.

Fleming, John Ambrose. 654.1 F62w

Wonders of wireless telegraphy explained in simple terms for the non-technical reader. 1913. Soc. for Promoting Christian Knowledge.

"Not only a model of clear exposition but...an example of how to select and arrange just the features of interest which the ordinary reader desires to hear about... There is...neither a loose statement nor an unfounded assertion, and...there is nothing in the way of unsound popular science." *Science progress*, 1914.

Gibson, Charles R. 654.1 G36

Wireless telegraphy and telephony without wires; a popular account of the past and present of wireless telegraphy and telephony which assumes no previous knowledge of the subject on the part of the reader. 1914. Seeley.

Good elementary treatment.

International Correspondence Schools, Scranton, Pa. 654.1 I24

Simultaneous telephony and telegraphy, telephones, telephone train despatching, indoor wiring, line work, telephone and telegraph cables. 1906-13. International Textbook Co. (International library of technology, v.131.)

The same.....r 654.1 I24

Marchant, William Henry. 654.1 M37

Wireless telegraphy; a handbook for the use of operators and students. 1914. Whittaker.

"A simply worded and readable handbook of reasonably restricted scope." *Electrical world*, 1914.

Hardly up to date (1914).

Mauborgne, Joseph Oswald. 654.1 M48

Practical uses of the wave meter in wireless telegraphy. 1913. McGraw.

Adopted by direction of the secretary of war for use at the Army Signal School, Fort Leavenworth, Kansas.

Morgan, Alfred Powell. 654.1 M89a

Wireless telegraph construction for amateurs, with a complete description of the new wireless law. Ed.3, rev. & enl. 1914. Van Nostrand.

Elementary manual, giving clear, trustworthy information. Little attention to principles of electric wave transmission. Concerned almost entirely with construction and adjustment of apparatus.

Morgan, Alfred Powell. 654.1 M89w

Wireless telegraphy and telephony simply explained; a practical treatise embracing complete and detailed explanations of the theory and practice of modern radio apparatus and its present day applications, with a chapter on the possibilities of its future development. 1913. Henley.

Popular in treatment. Freely illustrated.

- Robison, Samuel Shelburne.** 654.I R55
Manual of wireless telegraphy for the use of naval electricians. Ed.3, rev. 1915. U. S. Naval Institute.
Practical, giving attention to actual apparatus, its construction, installation and working. Clear and direct in statement and treatment.
- St. John, Thomas Matthew.** j 654.I S14
Things a boy should know about wireless, containing much practical and some theoretical information regarding the operation and explanation of wireless outfits, with numerous wiring-diagrams. Ed.2. 1910. St. John.
- Squier, George Owen.** 654.I S77
Multiplex telephony and telegraphy by means of electric waves guided by wires. 1911. (United States—Signal office. Professional paper.)
Experiments to demonstrate practicability of ordinary wire systems for efficient simultaneous transmission of telegraphic and telephonic messages.
- Stanley, Rupert.** 654.I S78
Text book on wireless telegraphy. 1914. Longmans.
Moderately technical book.
- United States—Naval radio service.** r 654.I U2535
Commercial traffic regulations, 1915. 1915.
- United States—Navigation bureau. (Department of commerce.)** r 654.I U2533re
Regulations for radio apparatus and operators on steamers; edition July 1, 1913. 1913.
- United States—Navigation bureau. (Department of commerce.)** r 654.I U2533a
Regulations governing radio communication; edition July 1, 1913. 1913.
The same; edition Sept. 28, 1912. 1912.....r 654.I U2533
- United States—Navy department.** r 654.I U2532
International radio telegraph convention of Berlin, 1906, and propositions for the International Radio Telegraph Conference of London. 1912. U. S. Government.
- United States—Radio service.** r 654.I U2533ra
Radio communication laws of the United States and the International radiotelegraphic convention; regulations governing radio operators and the use of radio apparatus on ships and on land; edition July 27, 1914. 1914.
- United States—Radio service.** r 654.I U2533r
Radio stations of the United States; edition July 1st, 1916. 1916.
- United States—Signal office.** r 654.I U2534
Radiotelegraphy, U. S. signal corps, Oct. 1916. 1917. (Circular no.1.)
Gives general explanation and description and contains discussion of radio apparatus in use in the Signal corps.

United States—Signal office.**r 654.1 U2534r**

Regulations governing commercial radio service between ship and shore stations, United States army, 1914. 1914. (Manual no.2A. War department doc. 459.)

Guide for operators, and officers in charge of coast and transport stations.

Verrill, Alpheus Hyatt.**j 654.1 V28**

Harper's wireless book; how to use wireless electricity in telegraphing, telephoning and the transmission of power. 1913. Harper. (Harper's practical books.)

Contents: The why and how of wireless.—How to build and use wireless apparatus.—Wireless telephony.

Diagrams and other illustrations.

Zenneck, Jonathan Adolf Wilhelm.**654.1 Z47**

Wireless telegraphy; tr. from the German by A. E. Seelig. 1915. McGraw.

"Bibliography and notes on theory," p.408-428.

Thorough treatment, of high technical value. The most comprehensive work published (1916). Chief attention to German apparatus. The bibliography is referred to by number throughout the text.

United States—Radio service.**r 654.109 U25**

Important events in radiotelegraphy, Feb. 1, 1916. 1916.

Fleming, John Ambrose.**654.4 F62**

Propagation of electric currents in telephone and telegraph conductors; a course of post-graduate lectures delivered before the University of London. 1911. Constable.

Comprehensive, technical treatise, using calculus. For advanced instruction of telegraph and telephone engineers.

Telephones**American Telephone and Telegraph Company.****r 654.6 A512**

Annual report, 1912-16. 1913-17.

Prior to 1900 this company owned only the long distance lines of the American Bell Telephone Company but on March 27, 1900 the entire stock of that company was transferred.

For reports for 1900-11 see preceding catalogue, v.6.

Jansky, Cyril Methodius, & Faber, D. C.**654.6 J18**

Principles of the telephone; prepared in the Extension division of the University of Wisconsin. pt.1, in iv. 1916. McGraw. (Industrial education series.)

v.1. Subscriber's apparatus.

McMeen, Samuel G. & Miller, K. B.**654.6 M21**

Telephony; a comprehensive and detailed exposition of the theory and practice of the telephone art. 1912. Amer. School of Correspondence.

Comprehensive work, dealing largely with practical features.

Marshall, Percival.**654.6 M41**

Telephones and microphones; how to make and use them; a practical handbook for amateur electricians. Ed.10. ("Model engineer" series.)

Briefly describes construction, installation and repair of simple apparatus.

- Mourlon, Charles.** r 654.6 M94
Les téléphones usuels. Ed.2. [1886.]
 Rather thorough treatise on early instruments and practice.
- Smith, Arthur Bessey, ed.** 654.6 S64
Modern American telephony in all its branches. 1911. Drake.
 Practical in treatment, giving descriptions of apparatus rather than theory.
- Smith, Arthur Bessey, & Campbell, W. L.** 654.6 S64au
Automatic telephony; a comprehensive treatise on automatic and semi-automatic systems. 1914. McGraw.
 Descriptive. Explains connections and working of the important systems both in the United States and abroad.
- Thiess, John Bernhard, & Joy, G. A.** 654.6 T36
Toll telephone practice, with an introductory chapter by F. F. Fowle. 1912. Van Nostrand.
 Field covered includes all telephone service which is not strictly local, such as suburban and long distance service. Comprehensive in its field, avoiding mathematical discussions as far as possible.
- Kingsbury, John Edward.** 654.609 K27
Telephone and telephone exchanges; their invention and development. 1915. Longmans.
 Not intended to be a complete history, but recounts the more important facts since the earliest development. Chief attention is to the Bell system. Automatic telephony is treated very briefly.

Signals

For Railroad signals, see 656.5

- Fay, Harold J. W.** r 654.9 F29
History and development of submarine signals; a paper presented at the 29th annual convention of the American Institute of Electrical Engineers, Boston, Mass., June 17, 1912. 1912.

655 Printing. Publishing

- Growoll, Adolf.** qr 655 G94
Profession of bookselling. v.3. 1913.
 Puts in accessible form, direction and information of a practical kind that may be of service to the young recruit in the ranks of the book trade. Contains chapters on the correspondence department of a book-store, on subscription book business, on the commercial traveler and on the selling of second-hand books.
 For v.1-2 see preceding catalogue, v.1.
- Holme, Charles, ed.** qr 655 H73
The art of the book; a review of some recent European and American work in typography, page decoration & binding. 1914. (Studio. Special spring number, 1914.)
Contents: British types for printing books, by B. H. Newdigate.—Fine bookbinding in England, by Douglas Cockerell.—The art of the book in Germany, by L. Deubner.—The art of the book in France, by E. A. Taylor.—The art of the book in Austria, by A. S. Levetus.—The art of the book in Hungary.—The art of the book in Sweden, by August Brunius.—The art of the book in America, by W. D. Orcutt.

Keystone Type Foundry, pub. r 655 K23

Useful information for the printer.

Information and ideas from many sources, covering work of composing room and press room.

Sherman, George. 655 S55

Practical printing; explaining the ways and means of production in the modern printing plant. 1911. Oswald Pub. Co.

The same.....r 655 S55

"Methods and processes described have been tried and proved." *Preface.*

Southward, John. 655 S72

Modern printing; a handbook of typography and the auxiliary arts. Ed.3. 2v. 1912-13. Raithby.

Story of my creation, by a book. [1913.] 655 S88

Prepared, printed and bound in the shop of H. S. Crocker Co. and issued under the auspices of the Home Industry League of California.

Pamphlet describing briefly and in simple language the various processes in printing and bookbinding.

qr 655.05 G79

The Graphic arts, the monthly magazine of the craftsmanship of advertising, 1911-May 1915. v.1-v.8, no.5. 1911-15.

Publication discontinued with v.8, no.6, June 1915.

Study and teaching

Cincinnati, Chamber of Commerce. r 655.07 C48

Industrial survey of Cincinnati; vocational section, printing trades.

1915.

"Bibliography," p.140-141.

Finds that training of beginners in the printing trades is almost entirely neglected, and urges employers to join with public schools in establishing a system of industrial education to insure better service.

Shaw, Frank Leslie. 655.07 S53

The printing trades. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Contents: The printing industry.—The composing-room.—The pressroom.—The bindery.—Plate-making and lithography.—Training before the boy leaves school.—Training for apprentices and journeymen.

Brief consideration of printing as a vocation, the requisite training and the possibilities.

History of printing

McKerrow, Ronald Brunlees. qr 655.1 M18

Printers' & publishers' devices in England & Scotland, 1485-1640. 1913. Chiswick Press. (London, Bibliographical Society. Illustrated monographs.)

"List of some books referred to," p.52-53.

"Intended to contain an account of all marks and devices used by printers and publishers resident in England and Scotland from the time of the introduction of printing until 1640, and also of all wood-cut borders and ornaments containing the owner's device or initials used here during the period." *Preface.*

Stevens, George A. r 331 N2612a v.11

New York typographical union no.6; study of a modern trade union and its predecessors. 1912. (In New York (state)—Labor department. Annual report, v.11, pt.2.)

American Type Founders' Co.**r 655.12 A51**

Guide to the exhibit of the typographic library and museum at the second national printing exposition, New York city, April 18 to 25, 1914. 1914.

Dickson, Robert, & Edmond, J. P.**qr 655.141 D55**

Annals of Scottish printing from the introduction of the art in 1507 to the beginning of the 17th century. 1890. Macmillan.

Duff, Edward Gordon, and others.**r 655.142 D87**

Hand-lists of English printers, 1501-1556. v.2, 2 pts. in iv. 1905-13. London, Bibliographical Soc.

v.2. T. Berthelet.—J. Butler.—J. Herford.—T. Gibson.—J. Nycholson.—R. Graf-ton.—J. Mayler.—T. Raynalde.—W. Middleton.—R. Kele.—R. Lant.—R. Wolfe.—H. Pepwell.—R. Redman.—R. Wyer.—T. Petyt.—E. Whitchurch.—J. Cawood.—N. Hyll.—J. Day.—R. Juggle.—W. Powell.—W. Copland.—R. Tottell and others.

For v.1 see preceding catalogue, v.4.

Gray, George John, & Palmer, W. M. comp.**r 655.142 G81**

Abstracts from the wills and testamentary documents of printers, binders and stationers of Cambridge, from 1504 to 1699. 1915. Blades. Printed for the London Bibliographical Society.

London, Stationers' Company.**qr 655.142 L82**

Transcript of the registers of the Company of Stationers of London, 1554-1640; ed. by Edward Arber. 5v. 1875-94. Privately printed.

v.1. Detailed cash accounts to 22 July 1571.—Summary cash abstracts onward to 2 Aug. 1596.

v.2. Entries of books to 25 June 1595.—Entries of apprentices and freemen, calls on the livery and fines to 2 July 1605.

v.3. Entries of books to 11 July 1620.—Entries of freemen to 31 Dec. 1640.—Succession of master printers in London, 1586-1636.

v.4. Entries of books to 3 Nov. 1640.—Calls on the livery and promotions to the assistance to 31 Dec. 1640.

v.5. Mr C. R. Rivington's paper on the Records of the Stationers' Company, 1881-1893.—A list of 847 London publishers, 1553-1640.—A bibliographical summary of English literature, 1555-1603.—An index of the mechanical producers of English books, 1553-1640.

Madan, Falconer.**r 655.142 M230**

Oxford University Press, '1468'-1911; abridged from "A brief account of the University Press," with additions. 1911. Oxford University Press.

De Vinne, Theodore Low.**qr 655.145 D49**

Notable printers of Italy during the 15th century; illustrated with facsimiles from early editions, and with remarks on early and recent printing. 1910. De Vinne Press.

"Authorities," p.2c1.

Purpose is to facilitate study and comparison of early types. . Presents full-page facsimiles photo-engraved from old books.

Type. Type-setting**Style manuals. Types****Riverside Press, Cambridge, Mass.****r 655.24 R52**

Handbook of style in use at the Riverside Press, Cambridge, Massachusetts. 1913. Houghton.

Ross, Charles Griffith, ed. r 655.24 R73
 Deskbook of the school of journalism. Ed.5, rev. & enl. 1915.
 University of Missouri. (Missouri University. Bulletin; journalism
 series 12.)

Scientific Press, Brooklyn. r 655.24 S41
 Specimens of monotype and linotype book faces; including explana-
 tion of the point system, calculations for different sizes of pages for
 each face of type, comparisons of modern and old style types, speci-
 mens of six to 12 point types leaded with one- to four-point leads, proof-
 reader's marks, number of ems in square inches of type, quantities of
 paper required, equivalent weights of paper, etc. 1913.

Jansen, Hubert, comp. r 655.25 J18
 Rechtschreibung der naturwissenschaftlichen und technischen
 fremdwörter, unter mitwirkung von fachmännern; hrsg. vom Verein
 Deutscher Ingenieure. 1907.

McClellan, George Edward. r 655.25 M13
 Practical typography; a series of exercises explaining and illustrat-
 ing the most approved methods used in correct composition, for the
 teacher and student. 1913. Manual Arts Press.
 Designed to afford practice in typesetting and incidentally to give general instruc-
 tion in proper methods.

Trezise, Frederick James. 655.26 T73
 Typography of advertisements. 1911. Inland Printer Co.
 "To select the most readable and satisfactory type-faces, and to arrange them in
 such manner that the eye is involuntarily led, by reason of the design as well as the
 wording, through the advertisement, is the end to be desired in the composition of ad-
 vertisements, and it is to indicate the application of the principles governing these points
 of design that this work is undertaken." *Preface.*

Wyse, Henry T. qr 655.26 W99
 Modern type display and the use of type ornament. 1911. Privately
 printed.
 "Aim of the work is to call the reader's attention to some possibilities in the ar-
 rangement of type and ornament. To do this satisfactorily, it was necessary to recount
 in a brief way the history of written and printed alphabets, and to say something of the
 construction of type ornaments and their combinations. Much of the matter included
 had to be obtained from both ancient and modern books on the subject." *Preface.*

Imposition

Schott, Charles Joseph. r 655.27 S37
 Theory and practice of book imposition, using the system of groups-
 of-four as originally introduced by the author, with an index of 110
 standard forms; a treatise. 1910. Privately printed.

Tapley (J. F.) Co. N. Y. r 655.27 T18
 Useful information concerning book impositions, including all the
 modern layouts & practical advice to the publisher and printer. 1914.

Practical printing

Baltes, Frank William. 655.3 B21

Cost of printing; a system in practical operation, with forms and books, especially adapted to large and small printing concerns. 1894. Baltes and Co.

qr 655.3 G79

Graphic arts and crafts year book (6th); American annual review of the printing and allied industries, 1913/14. 1913. Republican Pub. Co.

For volumes for 1907-11 see preceding catalogue v.6, under title "Graphic arts year book."

Mallette, Robert Clark, & Jackson, W. H. 655.3 M29

Starting a printing-office; a hand-book for those about to establish themselves in the printing business and for those already established. 1902. Jackson Quick Printing Co.

Thoroughly practical guide to organization, equipment and management. Largely a record of problems arising in the office of the authors in an experience of more than 20 years.

Oswald Publishing Company, New York (city). qr 655.3 O29

American manual of presswork. 1911.

Exceedingly valuable reference work, dealing with history, equipment, and methods of press-room work. Contains numerous samples of high-grade work.

Edited from the "American printer."

Simmons, Charles V. 655.3 S59

A system for a medium-sized printshop. 1908. Oswald Pub. Co.

With this is bound "The offset process from a practical viewpoint" by L. L. Crittenden.

Brief. Concerned largely with forms and methods used for keeping time and costs.

Wait, William Bell. r 655.38 W14

Phases of punctography in relation to visual typography, writing, printing, bookbinding and other features. [1913.]

Punctography refers to systems of recording language by means of embossed points or dots for tactile interpretation. Author presents a brief comparison of American Braille and New York point, favorable to the latter.

Publishing. Bookselling

Schulze, Friedrich Karl Alfred. r 655.443 S39

B. G. Teubner, 1811-1911; geschichte der firma in deren auftrag. 1911.

History of a progressive German publishing house. The Teubner publications are mainly scientific and the firm maintains in Berlin (1911) a free reading-room where the people have access to a reference library of more than 8,000 volumes as well as to late books and periodicals published by the firm.

Teubner, B. G. pub. r 655.443 T32

Die hundertjahrfeier der firma B. G. Teubner, Leipzig, 3. und 4. Marz 1911. [1911.]

Contains also "Von unseres volkes werden; vorspiel zur aufführung des dritten aktes von Richard Wagners Meistersingern," von Cäsar Flaischlen.

Loosjes, Vincent. qr 655.4492 L85

Geschiedenis van de Vereeniging ter Bevordering van de Belangen des Boekhandels, 1815-1915. 1915.

Harper, Joseph Henry.

655.473 H28

The house of Harper; a century of publishing in Franklin square. 1912. Harper.

Annals of the well-known publishing house, taken from the memoranda of the founders and put together by a grandson of one of them. It includes biographies of the four original Harper brothers and shows a long roll of authors first introduced to the American public by the insight and enterprise of the house. There are also interesting reminiscences of Civil war days and of the Tweed ring revelations.

qr 655.5 A51

American book trade manual, 1915, including lists of publishers, book-sellers and private book collectors. 1915. Bowker.

Barnes (A. S.) & Co. pub.

r 655.5 B25

Seventy-five years of book publishing, 1838-1913. 1913. Privately printed.

International Congress of Publishers.

qr 655.5 I24

Vocabulaire technique de l'éditeur en sept langues: français, deutsch, English, español, Hollandsch, italiano, magyar. 1913.

Leipzig, International Exposition of the Book

r 655.5 L56

Industry and Graphic Arts, 1914.

Die weltausstellung für buchgewerbe und graphik. 1914.

Répertoire international de la librairie, 1912. 1912.

r 655.5 R35

Published by the International Congress of Publishers. English title reads "International directory of the book trade."

Smarr, Joseph B.

r 655.53 S63

Standard specifications for book printing for the use of state and municipal governments, publishers, universities and other institutions, with a foreword by M. L. Cooke. 1914.

Issued by the Department of public works of Philadelphia.

Copyright

Bowker, Richard Rogers.

r 655.6 B66c

Copyright; its history and its law; being a summary of the principles and practice of copyright, with special reference to the American code of 1909 and the British act of 1911. 1912. Houghton.

"Chronological table of laws and cases, English and American," p.653-675.

Comprehensive survey of development and present (1912) position of copyright in many countries. Author is editor of "Publishers' weekly" and vice-president of American Copyright League, and has for years been in close touch with development of copyright law.

Ogilvie, George W.

r 655.6 O17

To all those who have heard of Webster's dictionaries and particularly to those who have heard of the 24-year-old litigation conducted, with only breathing spells, ever since 1890, and continuously since 1904 to 1914, by a Massachusetts corporation known as G. & C. Merriam Company, this pamphlet is issued to enlighten, inform and instruct on the questions improperly raised and also on the deception practiced on the United States lawyers for the Merriam Co. and therefore on those matters that are left cloudy in the minds of the uninitiated. [1914.]

Oldfield, Laurel Cecil Francis.

655.6 O23

Law of copyright, including the copyright act, 1911, the unrepealed sections of the fine arts copyright act, 1862, the musical (summary proceedings) copyright act, 1902, the musical copyright act, 1906 and the United States of America copyright act, 1909, and the Berlin and Berne conventions, and tables of the laws, treaties and conventions in foreign countries. 1912. Butterworth.

656 Transportation. Railroads

See also Railroads, 385; Railroad and road engineering, 625

Bibliography

Bureau of Railway Economics, Washington, D. C.

qr 016.656 B89

Railway economics; a collective catalogue of books in 14 American libraries. [1912.] University of Chicago Press.

"Railway periodicals and proceedings," p.412-423.

Only the catalogued material in the 14 libraries is given. Lists only the most important state and Federal documents, and does not include articles in periodicals, nor guides, time-tables, tariffs, maps, wall cases, etc.

"So far as practicable the catalogue usage of the Library of Congress has been followed." *Prefatory note.*

General works

American Railway Engineering and Maintenance-of-way Association.

r 656 A51a3

Manual. 1915.

r 656 E98

Exporters' encyclopædia, containing full and authentic information relative to shipments for every country in the world, 1915. Ed.11. 1915. Exporters' Encyclopædia Co.

For volume for 1906 see preceding catalogue, v.6.

Hungerford, Edward.

656 H93

The modern railroad. 1911. McClurg.

Entertainingly written. Will give the general reader some idea of the intricacy and magnitude of modern railroad systems. Intended to cover mainly operation and equipment, but touches on railroad development. Chapters on application of electricity and on steamship lines owned by railroads.

Lucas, Félix Benjamin.

r 656 L96

Étude historique et statistique sur les voies de communication de la France, d'après les documents officiels. 1873.

Thompson, Slason.

r 656 T38

Railway statistics of the United States of America, 1911/12-1916 compared with the official reports of 1910-15 and recent statistics of foreign railways. 1913-[17].

For volumes for 1905/06-1910/11 see preceding catalogue, v.6.

qr 656 T69

Travelers', shippers' & mail guide for the United States; a loose leaf shipping guide, revised monthly, 1916. 1916. Shippers' Guide Co.

Traffic world; weekly, 1915–date. v.15–date. 1915–date. qr 656.05 T67

Fleming, Ralph Douglas. 656.07 F62

Railroad and street transportation. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Contents: Railroad transportation.—Motor and wagon transportation.—Street railroad transportation.

Briefly outlines the field for employment offered in actual operation of transportation facilities.

History of transportation

Chevalier, Michel. qr 656.09 C42

Histoire et description des voies de communication aux États-Unis et des travaux d'art qui en dépendent. 3v. 1840–41.

v.1–2. Text.

v.3. Atlas.

Dunbar, Seymour. 656.09 D89

History of travel in America; showing the development of travel and transportation from the crude methods of the canoe and the dog-sled to the highly organized railway systems of the present, with a narrative of the human experiences and changing social conditions that accompanied this economic conquest of the continent. 4v. 1915. Bobbs.

"Contribution to a bibliography of the history of travel in America," v.4, p.1447–1481.

Continuous paging.

A very interesting treatise. Reproductions of more than 400 old illustrations add much to the value of the work. Arrangement not strictly logical and index unsatisfactory.

Hall, Cyril. 656.09 H17

Wonders of transport. [1913.] Blackie. (Triumphs of enterprise.)

Contents: Introductory.—Animal transport.—Roads and roadmakers.—Road vehicles.—Steam and petrol take the road.—Sea transport in ancient times.—The discovery of the world's sea roads.—Modern ocean carriers.—Railways and railway builders.—The conquest of the air.—His majesty's mails.

Gives a little history and describes primitive methods of transportation, but is devoted mainly to modern mechanical developments.

Railroad management

Arnold, Bion Joseph. r 656.1 A75

Report on the re-arrangement and development of the steam railroad terminals of the city of Chicago, submitted to the Citizens' Terminal Plan Committee of Chicago, Nov. 18, 1913.

Droege, John Albert. 656.1 D83f

Freight terminals and trains, including a revision of [the author's] "Yards and terminals." 1912. McGraw.

"Essentially a treatise on freight transportation in all its ramifications. The subject is treated from the viewpoint of the engineers who plan, build and maintain, and the officers who operate the plants which are cogs in the great machine." *Preface*.

Clear and concise. Written from actual experience of the author.

Hooker, George Ellsworth. qr 656.1 H77

Through routes for Chicago's steam railroads; the best means for attaining popular and comfortable travel for Chicago and suburbs. 1914.

Published by the City Club of Chicago.

American Railway Association.

qr 656.125 A51

Car location bulletin; statement of location of freight car equipment with surpluses and shortages, Jan.-Oct. 1914. no.14-23. 1914.

Jan.-May 1914 issued semimonthly, June-Oct. 1914 monthly.

No more published.

United States—Interstate commerce commission.

r 656.127 U25

Regulations for the transportation of explosives and other dangerous articles by freight and express and specifications for shipping containers; prescribed under the act of March 4, 1909 and section 15 of the act to regulate commerce as amended June 18, 1910, effective Oct. 1, 1914, except as noted herein. 1914.

Bureau of Railway Economics, Washington, D. C.

qr 616.656129 B89

List of references on the use of railroads in war, Aug.2, 1915. 1915.

Type-written copy.

Eaton, James Shirley.

656.13 E19

Handbook of railroad expenses. 1913. McGraw.

"Interpretative analysis of the classifications of the Interstate Commerce Commission prescribing the principles and details of railroad accounting. It is intended as a book of reference for railroad officers, statisticians, and financiers...The index...is remarkably complete and well arranged, containing references not only to every item in the various classifications but also to the subsequent rulings and interpretations."

Engineering record, 1913.

Richards, Ralph Coffin.

r 656.14 R41

How to handle freight; address to the agents and employes of the Chicago & North-western Railway Company. 1904. Privately printed.

Discussion of certain rules for railway freight shipment, showing importance of careful and intelligent attention to details. Gives many suggestions for avoiding damage and delay.

Railroad signals**Kohlfürst, Ludwig.**

r 656.5 K36

Die fortentwicklung der elektrischen eisenbahn-einrichtungen. 1891. (Hartleben's elektro-technische bibliothek.)

Deals briefly with telegraph, telephone, railway signals, safety and control devices.

qr 656.505 S57

Railway signal engineer; monthly, 1911-date. v.4-date. 1911-date.

v.4-8, 1911-15, title reads "Signal engineer."

United States—Interstate commerce commission.

qr 656.51 U25

Tabulation of statistics pertaining to block signals, interlocking plants and the telegraph and the telephone for transmission of train orders, as used on the railroads of the United States, 1915-16. 1915-16.

American Railway Association.

656.56 A51

Standard code of the American Railway Association; train rules, block signal rules, interlocking rules. 1911.

Engelhardt, Viktor, and others.

qr 621.3 H23 v.11

Wärmetechnik und signalwesen. 1908. (In Handbuch der elektro-technik, v.11, pt.2.)

"Benutzte literatur," p.559.

United States—Block signal and train control board. qr 656.56 U25b

Block signals on the railroads of the United States and table showing use of the telegraph and the telephone for transmission of train orders, Jan. 1, 1911. 1911.

Statistics compiled under direction of Interstate Commerce Commission.

General Railway Signal Company, Rochester, N. Y. 656.562 G29

Electric interlocking handbook, with an introduction by W. W. Salmon; H. M. Sperry, editor. 1913.

The same. 1915.....r 656.562 G29

Useful information regarding electric interlocking devices of the General Railway Signal Company, their technical features, installation and operation.

History of railroads

Corthell, Elmer Lawrence. r 385 C82t

The Tehuantepec ship railway; an address delivered before the Franklin Institute, Dec. 28, 1884. Merrihew Print.

Reprinted from the Journal of the Franklin Institute, June 1885.

Talbot, Frederick Arthur Ambrose. 656.6 T15

Railway conquest of the world. 1911. Lippincott. (Conquests of science.)

Selects and describes the most marvelous and picturesque feats in the history of railroad construction. Well illustrated.

Gordon, William John. r 656.642 G65

Our home railways; how they began and how they are worked. 2v. [1910.] Warne.

Traces briefly early development of English railways, then takes up separately the more important roads, discussing their present (1910) organization and equipment. Non-technical.

Talbot, Frederick Arthur Ambrose. 656.671 T15

Making of a great Canadian railway; the story of the search for and discovery of the route and the construction of the nearly completed Grand Trunk Pacific railway from the Atlantic to the Pacific, with some account of the hardships and stirring adventures of its constructors in unexplored country. 1912. Seeley.

Though the construction of this road presented formidable engineering problems, it is not with these that the book deals. It is devoted chiefly to the interesting and romantic features of railway building.

Castro, Juan José. qr 656.68 C27

Estudio sobre los ferrocarriles sud-americanos y las grandes líneas internacionales; publicado bajo los auspicios del Ministerio de fomento de la República o. del Uruguay y enviado á la Exposición universal de Chicago. 2v. 1893.

v.1. Text.

v.2. Map.

United States

Atchison, Topeka & Santa Fe Railway Company. qr 656.673 A86

Annual report, 1911/12-1915/16.

For reports for 1878-1910/11 see preceding catalogue, v.6.

- Baltimore and Ohio Railroad Co.** qr 656.673 B21a
Annual report (3d-5th, 87th-89th), of the president and directors to the stockholders, 1828/29, 1830/31, 1912/13-1914/15. 1829-1915.
For other reports see preceding catalogue, v.1, 6.
- Brownson, Howard Gray.** r 305 I22 v.4
History of the Illinois Central railroad to 1870. 1915. (In Illinois University. Studies in the social sciences, v.4, no.3-4.)
"Bibliography," p.169-174.
- Buffalo, Rochester and Pittsburgh Railway Company.** qr 656.673 B86
Annual report (28th-31st), 1913-16.
For reports for 1902-12 see preceding catalogue, v.6.
- Canadian Pacific Railway Company.** r 656.673 C16
Annual report (32d-36th), 1912/13-1916. 1913-17.
For reports for 1886-1911/12 see preceding catalogue, v.6.
- Chicago & North-western Railway Co.** r 656.673 C4324
Annual report (54th-57th), 1912/13-1916.
For reports for 1860/61-1911/12 see preceding catalogue, v.6.
- Chicago, Burlington and Quincy Railroad Company.** r 656.673 C4326
Annual report (59th-63d), 1912/13-1916.
For reports for 1871/72-1911/12 see preceding catalogue, v.6.
- Chicago, Milwaukee and St. Paul Railway Company.** r 656.673 C4322
Annual report (48th-52d), 1911/12-1916.
For reports for 1874-1910/11 see preceding catalogue, v.6.
- Chicago, Rock Island and Pacific Railway Company.** qr 656.673 C4323
Annual report (33d-37th), 1912/13-1916.
For reports for 1880/81-1911/12 see preceding catalogue, v.6.
- Cleveland and Pittsburgh Railroad Co.** qr 656.673 C58
Annual report (65th-69th), of the president and directors to the stockholders, 1912-16. 1913-[17].
For reports for 1902-11 see preceding catalogue, v.6.
- Denver and Rio Grande Railroad Company.** qr 656.673 D43
Annual report (27th-31st), to the stockholders for the year 1912/13-1916. [1913-17.]
Organized July 14, 1886 as successor to the Denver and Rio Grande Railway Company.
For earlier reports see preceding catalogue, v.6.
- Great Southern railway;** a trunk line between the North and the tropics to within 90 miles of Havana, connecting at the nearest possible point with the West Indies, Central and South America. 1878. Hickok.
r 656.673 G824
- Hill, James Jerome.** r 656.673 H55
The country's need of greater railway facilities and terminals; address delivered at the annual dinner of the Railway Business Association, New York city, Dec. 19, 1912. [1912.]
- Kennan, George.** 656.673 K18
The Chicago & Alton case; a misunderstood transaction. 1916. Country Life Press.
A defense of E. H. Harriman.

Kruttschnitt, Julius.

r 656.673 K42

Efficiency of public service of the railways; an address delivered before the Graduate school of business administration, Harvard University, April 26, 1911. [1911.]

Pamphlet presenting figures and arguments to show that American railway management has increased in efficiency during recent years, and that the present (1911) efficiency compares favorably with that of foreign railways or of American manufacturing establishments.

Lehigh Valley Railroad Company.

qr 656.673 L55

Annual report (59th-63d), of the board of directors to the stockholders, 1912/13-1916.

For reports for 1897/98-1911/12 see preceding catalogue, v.6.

qr 656.673 A512

McGraw electric railway manual; the red book of American electric railway investments; annual, 1911-date. 18th annual volume-date. 1911-date.

For volumes for 1899-10 see preceding catalogue, v.1, under title "American street railway investments."

Missouri Pacific Railway Company.

qr 656.673 M74r

Report (4th-7th), 1912/13-1915/16. [1914-16.]

Reports issued since the consolidation of the Missouri Pacific Railway Company with 11 auxiliary companies, Aug. 9, 1909, when it was made into a new corporation without change of name. For earlier reports see Annual report of the Missouri Pacific Railway Company (qr 656.673 M74).

The Missouri Pacific Railway Company controls the St. Louis, Iron Mountain & Southern Railway Company and the two roads are called the Missouri Pacific System, their reports being combined.

For reports for 1909/10-1911/12 see preceding catalogue, v.6.

Northern Pacific Railway Company.

qr 656.673 N45

Annual report (17th-20th), 1912/13-1916.

For reports for 1899-1912 see preceding catalogue, v.6.

Pennsylvania Railroad Co.

r 656.673 P39i

Information for employes and the public; a series of leaflets issued in 1914-16 by the Pennsylvania Railroad system in the interest of improved service, increased efficiency and a better understanding by employes and the public of railroad problems. v.2-4. [1914-16.]

Includes short biographies of officials and employes.

Pittsburgh, Cincinnati, Chicago and St. Louis

qr 656.673 P67

Railway Company.

Annual report (23d-27th), 1912-16. Philadelphia & Pittsburgh.

This company was formed in 1890 by the consolidation of the Pittsburgh, Cincinnati and St. Louis Railway Company with three other companies, and was merged, Jan. 1, 1917, into the Pittsburgh, Cincinnati, Chicago and St. Louis Railroad Company.

For reports for 1890-1911 see preceding catalogue, v.6.

Pittsburgh, Fort Wayne and Chicago

qr 656.673 P674

Railway Company.

Annual report (1st-54th) of the board of directors for the year ending Dec. 31, 1862-1916. 1863-[1917]. Pittsburgh.

With reports for 1880-84 is bound "Controversy on article 16th of the lease of the Pittsburgh, Fort Wayne & Chicago Railway to the Pennsylvania Railroad Company from March 30, 1883 to June 24, 1885."

Rock Island Company.

qr 656.673 R57

Annual report (11th) for the fiscal year ending June 30, 1913.

For reports for 1903-1912 see preceding catalogue, v.6.

- Southern Railway Company.** qr 656.673 S72
 Annual report (19th-20th), 1912/13-1913/14.
 For earlier reports see preceding catalogue, v.6.
- Union Pacific Railroad Company.** qr 656.673 U253
 Annual report, 1911/12-1916.
 The name of this company was the Union Pacific Railway Company until 1897, when it was reorganized as the Union Pacific Railroad Company.
 For reports for 1873-1910/11 see preceding catalogue, v.6.

Highway transportation

- Bureau of Railway Economics, Washington, D. C.** qr 016.6567 B89
 List of references on the jitneys and jitney regulation, July 15, 1915.
 1915.
 Type-written copy.

- Straus, Ralph.** 656.7 S912
 Carriages & coaches; their history & their evolution; illustrated with reproductions from old prints, contemporary drawings & photographs.
 1912. Lippincott.
Contents: The primitive vehicle.—The age of litters.—The introduction of the coach.—Interlude of the chair.—17th-century innovations.—Early Georgian carriages.—The war of the wheels.—The age of transition.—Inventions galore.—Modern carriages.
 "Not to be taken either as a manual of the art of coachbuilding or as a history of locomotion. It is merely a book about carriages, in which particular regard has been paid to chronological sequence, and particular attention to such individual carriages as have at all withstood the test of social history." *Preface.*

Navigation. Steamships

- Chatterton, Edward Keble.** 656.8 C39s
 Ships & ways of other days. 1913. Lippincott.
Contents: Introduction.—The birth of the nautical arts.—The development of the marine instinct.—Mediterranean progress.—Rome and the sea.—The viking mariners.—Seamanship and navigation in the middle ages.—The period of Columbus.—The early Tudor period.—The Elizabethan age.—The 17th century.—The 18th century.—The 19th century.
 Highly interesting account of maritime progress in all ages. Not only gives accurate information regarding early ships, but affords an intimate knowledge of seamanship as developed in various countries, and of life on fighting, exploring, fishing and trade vessels.
 Good elementary treatment.
- Jenks, Tudor.** j 656.8 J25
 The sailor [with] pictures by G. A. Williams. 1911. McClurg.
 ("What shall I be?" series.)
 Account of a sailor's life and of his work on shipboard, with a brief history of the development of ships and a chapter on "Books about the sailor."
- Talbot, Frederick Arthur Ambrose.** 656.8 T15
 Steamship conquest of the world. 1912. Lippincott. (Conquests of science.)
 Binder's title reads "Steamship conquest of the sea."
 Shows development of the great ocean liners, pictures their conveniences and luxuries and describes perils of ocean travel.
- United States—Coast and geodetic survey.** r 656.8 U2533
 Inside route pilot; Key West to New Orleans, 1914. 1915.

United States—Coast and geodetic survey. qr 656.8 U2533t

Table of depths for channels and harbors, coasts of the United States, including Porto Rico, the Hawaiian islands and the Philippine islands, 1913. 1913.

United States—Engineers corps. r 656.8 U2534

Rules and regulations relating to the navigable waters of the United States, with the exception of those for the northern and northwestern lakes and their connecting and tributary waters, which are printed in United States lake survey bulletins, July 1914. 1915.

United States—Hydrographic office. r 656.8 U253as

Asiatic pilot. v.4-5. 1915. (Publications, 125-126.)

v.4. Shores of the China sea from Singapore Strait to and including Hongkong. 1915.

v.5. Sunda Strait and the southern approaches to China sea with west and north coasts of Borneo and off-lying dangers, 1915.

For v.1-3 see preceding catalogue, v.6.

United States—Hydrographic office. r 656.8 U253br

British Columbia pilot. 2v. 1916. (Publications, no.175-176.)

v.1. The coast of British Columbia from the strait of Juan de Fuca to Cape Caution, including Vancouver island and the inland passages.

v.2. The coast of British Columbia from Cape Caution to Portland inlet, including the Queen Charlotte islands and Dixon entrance.

United States—Hydrographic office. r 656.8 U253b

British Islands pilot. v.1-7. 1915-17. (Publications, 144-150.)

v.1. The south coast of England from the Scilly isles to the Thames, with sailing directions for the English channel.

v.2. The west coast of England and Wales.

v.3. The coasts of Ireland.

v.4. The western coast of Scotland from Mull of Galloway to Rudh' Rè and off-lying islands.

v.5. The western coast of Scotland from Rhud' Rè to Cape Wrath, and the Hebrides isles.

v.6. Faroes, Shetlands and Orkney islands and north and east coasts of Scotland from Cape Wrath to Fife ness.

v.7. East coasts of Scotland and England from Fife ness to North Foreland, including the Firth of Forth and the Thames and Medway rivers.

United States—Hydrographic office. r 016.6568 U253c

Catalogue of charts and plans issued to vessels of the United States navy on the U. S. Atlantic station. 1912.

United States—Hydrographic office. r 656.8 U253me

Mediterranean pilot. v.1, 4. 1916. (Publications, no.151, 154.)

v.1. Comprising Strait of Gibraltar, south and southeast coast of Spain, African coast from Cape Spartel to Gulf of Gabes, including the Balearic islands, 1916.

v.4. From Cape Matapan (Greece) eastward, the Mediterranean archipelago, and the southern shore of the Mediterranean sea, eastward of Ras Ashdir (Libia). 1916.

United States—Hydrographic office. r 656.8 U253p

Pacific islands pilot. 2v. 1916. (Publications, no.165-166.)

v.1. Western groups.

v.2. Eastern groups.

United States—Hydrographic office. r 656.8 U253s

Scandinavia pilot. v.1-2. 1915-16. (Publications, no.140-141.)

v.1. The Naze to Christiania, thence to the Kattegat, also the Naze to Bergen.

v.2. The Kattegat to Cape Arkona, including the Sound, the Great and Little belts and Kiel bay.

United States—Hydrographic office. r 656.8 U253so
 South America pilot. 3v. 1916. (Publications, no.172-174.)

- v.1. East coast, from the Orinoco river to the Plata river.
- v.2. Southern part, from the Plata river on the east coast to Corcovado gulf on the west coast and including Magellan strait, the Falkland islands and islands to the southeast, and antarctic South America.
- v.3. West coast, from Corcovado gulf to Panama, including off-lying islands.

United States—Hydrographic office. r 656.8 U253we
 West Indies pilot. v.1. 1913. (Publications, no.128.)
 v.1. Bermuda islands, Bahama islands and the Greater Antilles.

qr 656.8 U25u

United States coast pilot; Pacific coast. v.1-date. 1901-date. (United States—Coast and geodetic survey.)

- v.1, pt.1. Alaska; Dixon entrance to Yakutat bay, with inland passage from Juan de Fuca strait to Dixon entrance. 1908, 1912, 1916.
 - v.1, pt.2. Yakutat bay to Arctic ocean. 1916.
 - v.2. California, Oregon and Washington. 1909, 1912.
- For earlier edition of v.1, pt.1 and v.2 see preceding catalogue, v.1.

United States—Hydrographic office. r 656.813 U25
 Table of distances between ports via the shortest navigable routes, as determined by the United States hydrographic office [1912, 1916]. 1912-16. (Publications, no.117.)

Volume for 1912 title reads "Table of distances in nautical and statute miles."

Inland navigation

See also Natural waterways, 627.1

[Fitch, John, 1743-98.] r 656.9 R87
 Original steam-boat supported; or, A reply to Mr James Rumsey's pamphlet, shewing the true priority of John Fitch and the false datings, &c. of James Rumsey. 1788. Poulson.

Bound with Rumsey's "Short treatise on the application of steam."

New York (state)—Barge canal terminal commission. r 656.9 N26
 Proceedings, transmitted to the legislature March 1, 1911. 2v. 1911.

Rumsey, James. r 656.9 R87
 Short treatise on the application of steam, whereby is clearly shown from actual experiments that steam may be applied to propel boats or vessels of any burthen against rapid currents with great velocity. 1788. James.

With this is bound Fitch's "Original steam-boat supported; or, A reply to Mr James Rumsey's pamphlet."

United States—Hydrographic office. r 656.9 U25g2
 The gulf and river St. Lawrence: addenda. 1913-16.

United States—National waterways commission. r 656.9 U253
 Final report. 1912. (62d cong. 2d sess. Senate. Doc. no.469.)

Appendix on "Forests and water in the light of scientific investigation" contains bibliography, p.274-302.

Treats of control of water terminals and water-power, utility of storage reservoirs and effects of forestation.

657 Bookkeeping. Accounting

r 658 M76 v.7

Auditing and cost finding. 1916. Alexander Hamilton Institute. (In Modern business, v.7.)

Contents: Auditing, by Seymour Walton.—Cost finding, by D. S. Kimball.

Bentley, Harry Clark.

657 B445

Science of accounts; a presentation of the underlying principles of modern accounting, designed as a work of reference for accountants and as a text book for advanced students of accountancy. 1911. Ronald Press Co.

Devoted to principles rather than to the practice of accounting. Elementary in some respects but fairly comprehensive. Includes C. P. A. examination questions from examinations given in several states.

Charlton, William Hurst.

657 C37

American mine accounting; methods and forms employed by leading mining companies. 1913. McGraw.

Methods of representative companies actually engaged in iron mining, copper mining and metallurgy, gold mining and milling, coal mining and coke manufacture; also methods for recording engineering and geological data.

Dickinson, Arthur Lowes.

657 D552

Accounting; practice and procedure. 1914. Ronald Press Co.

Considers problems relating to income account, balance sheet and cost accounting, and discusses responsibility of accountant to the public. Technicalities are in general avoided.

Edwards, Henry Moore.

657 E31

Electric light accounts and their significance. 1914. McGraw.

"Purpose...is to describe a system of accounting adapted to the needs of a company engaged in the business of generating electric current and selling it to the general public and to such other customers as it may be able to obtain. It is assumed that the reader brings to the study of this subject a competent knowledge of the elementary principles of accounting that constitute the basis of all systems." Page 1.

Based on author's experience as auditor of the New York Edison Company and with the Accounting committee of the National Electric Light Association.

Esquerré, Paul Joseph.

657 E84

Applied theory of accounts. 1914. Ronald Press Co.

Presents the principles of accounting for advanced students. Presupposes some knowledge of business law.

Greendlinger, Leo, & Schulze, J. W.

r 658 M76 v.6

Accounting practice; a comprehensive statement of accounting principles and methods, illustrated by modern forms and problems. 1916. Alexander Hamilton Institute. (In Modern business, v.6.)

Humphreys, Alexander Crombie.

657 H92

Lecture notes on some of the business features of engineering practice, with lectures and papers by other authors. [Ed.2], rev. & enl. 1912. Stevens Institute of Technology.

Treat of accounting, contracts, specifications, etc.

Author is (1912) president of the Stevens Institute of Technology.

- Klein, Joseph Jerome.** 657 K31
 Elements of accounting; theory and practice. 1913. Appleton.
 "Bibliography" at the end of many of the chapters.
 Concise text-book reviewing first principles and giving explanations, exercises and illustrations designed to afford the student or business man a view of modern practical accounting.
 "Purpose...is to bridge the gap between bookkeeping and accounting." *Preface.*
- Montgomery, Robert Hiester.** 657 M864a
 Auditing; theory and practice. Ed.2, rev. & enl. 1916. Ronald Press Co.
The same. 1912.....r 657 M86
 "The most notable book on accounting that has appeared during the year...Must unquestionably be accepted as the standard American book of reference and text-book on the subject." *Journal of accountancy*, 1912.
- Montgomery, James Louis.** 657 M86a
 Modern book-keeping and business practice. [Rev. ed.] 1906. Merrill.
The same.....r 657 M864
- Palmer, Joseph Howard.** r 657 P19
 Treatise on practical book-keeping and business transactions, embracing the science of accounts and their extensive applications; designed for schools, academies and commercial colleges. Ed.20, rev. 1870. Sheldon.
- Pennsylvania—Examiners of public accountants,** 657 P39
 State board of.
 Examination questions set at each examination, Nov. 1916. [1916.]
 For volumes for Nov. 1899–Nov. 1910 see preceding catalogue, v.6.
- Sadler, Warren H. & Rowe, H. M.** q 657 S12
 Business book-keeping and practice; presenting the theory of accounts by the inductive method and illustrating the principles of book-keeping and the best practice of experienced bookkeepers in modern accounting. 1894. Privately printed.
- Sprague, Charles Ezra.** 657 S76a
 Accountancy of investment, with which are incorporated "Logarithms to 12 places and their use in interest calculations" and "Amortization;" revised by L. L. Perrine. 1914. Ronald Press Co.
- Tipson, Frederick Samson.** 657 T49t2
 Theory of accounts. Ed. 2, rev. & enl. 1913. Mendoza.
 Contains questions in theory of accounts at New York state examinations for Certified Public Accountants. To use this book intelligently a knowledge of bookkeeping is necessary.
- United States—Interstate commerce commission.** r 657 U25
 Classification of investment in pipe lines, pipe line operating revenues and pipe line operating expenses of carriers by pipe lines, prescribed by the Interstate commerce commission in accordance with section 20 of the Act to regulate commerce; issue of 1915, effective on Jan. 1, 1915. 1914.

Webner, Frank Erastus.

657 W37

Factory costs; a work of reference for cost accountants and factory managers. 1911. Ronald Press.

"A good book...probably the most complete and most exhaustive on the subject yet written. It is well indexed and replete with references. It is written in a pleasing style. It has many strong points and some weak ones...Judging a book of this kind as a compilation seems to be the fairest basis, and judged on this basis, one can only come to the conclusion that it is excellent." *Journal of accountancy*, 1912.

Wildman, John Raymond.

657 W71

Principles of accounting. 1914. Hewitt.

Forms the basis of the course in theory of accounting, in New York University school of commerce, accounts and finance. Fills an intermediate place between book-keeping and professional accountancy.

Encyclopedias

r 657.03 C97

Cyclopedia of commerce, accountancy, business administration; a general reference work. 10v. 1912. Amer. Technical Soc.

- v.1. Organization, sales, credits, statistics.
- v.2. Purchasing, manufacturing, costs.
- v.3. Commercial law.
- v.4. Theory of accounts, partnerships, vouchers.
- v.5. Wholesale executors, trial balances, orders.
- v.6. Auditing, corporations, combinations.
- v.7. Banking, publishing, practical problems.
- v.8. Retail, mail order, mechanical bookkeeping.
- v.9. Insurance, real estate, contracting.
- v.10. Department stores, hotels, mathematics, index.

Prepared primarily for use as instruction books for the American School of Correspondence.

qr 657.03 E62

Encyclopædia of accounting; ed. by George Lisle. 8v. 1903-07. Green.

- v.1-6. A-Z, with an index to [v.1-6].
- v.7-8. Forms and precedents.
- v.7-8 are also catalogued separately, q 657 L73.

Comprehensive. The various collaborators are authorities on their respective subjects. Deals with pure accounting and with allied commercial and legal subjects with reference to both English and Scottish law.

Periodicals. Societies

qr 657.05 A172

Accountant; the recognised weekly organ of chartered accountants and accountancy throughout the world, 1890-1912. new ser. v.16-47. 1890-1912.

—Accountant law reports [weekly], 1890-1912. new ser. v.16-47. 1890-1912.....qr 657.05 A172a

v.16-22, 30-47, for 1890-96, 1904-12 bound with the "Accountant."

r 657.05 A17

Accountants' magazine; a journal for business men [monthly], 1897-1912. v.1-16. 1897-1912.

No numbers issued in Sept. and Oct.

qr 657.05 I24

Incorporated accountants' journal [monthly], Oct. 1899-Sept. 1912. new ser. v.11-23. 1899-1912.

Official organ of the Society of Incorporated Accountants and Auditors.

Journal of accountancy; index, v.1-16, Nov. 1905-1913. r 657.05 J46
For volumes of magazine see preceding catalogue, v.6.

American Association of Public Accountants. r 657.06 A51
Year-book, 1912/13. 1913.

Contains Proceedings of the annual convention (26th), 1913, together with papers presented and reports of discussions.

History

Woolf, Arthur Harold. 657.09 W87

Short history of accountants and accountancy. 1912. Gee.

"Bibliography, 1494-1800;" comp. by Cosmo Gordon, p.197-239.

"Very excellent little work...By no means exhaustive...Will be of interest to the accountant as giving a brief but clear and well-written description of origin and development of his profession." *Journal of accountancy*, 1913.

Depreciation. Cost accounting

For Evaluation, see 658.1

Saliers, Earl Adolphus. 657.453 S16

Principles of depreciation. 1915. Ronald Press Co. (Ronald accounting series.)

"Selected bibliography," p.185-188.

Deals with the theory and the methods of applying the principles of depreciation which enter into property valuation for rate-making, taxation, capitalization, or purchase.

International Correspondence Schools, Scranton, Pa. 657.52 I24

Corporation organization and accounting, partnerships, auditing. 1913-14. International Textbook Co. (International library of technology, v.132.)

The same.....r 657.52 I24

r 658 M76 v.7

Auditing and cost finding. 1916. Alexander Hamilton Institute. (In Modern business, v.7.)

Contents: Auditing, by Seymour Walton.—Cost finding, by D. S. Kimball.

Baugh, Frederick Henry. 657.524 B32

Principles and practice of cost accounting, for accountants, manufacturers, mechanical engineers, teachers and students. 1915. Privately printed.

Not a book of forms and directions for the practical cost keeper, but a consideration of the principles of cost accounting in relation to general accounting.

Burroughs Adding Machine Company, Detroit. r 657.524 B94

Cost keeping short cuts; prepared from experiences in many lines of business. 1911.

Explains fundamentals of cost keeping and incidentally but unobtrusively shows how the machines made by this company are of service.

Cole, William Morse. 657.524 C68

Cost accounting for institutions. 1913. Ronald Press Co.

Presupposes a general knowledge of the principles of bookkeeping and accounting. Deals mainly with conditions in hospitals, but suggests variations and additions applicable to educational and other institutions.

International Correspondence Schools, Scranton, Pa. 657.524 I24
Cost accounting, analysis of accounts, insolvent and decedents' estates. 1913-14. International Textbook Co. (International library of technology, v.133.)

The same.....r 657.524 I24

Moxey, Edward Preston. r 657.524 M94
Principles of factory cost keeping. 1913. Ronald Press Co.
Thesis for Ph. D., University of Pennsylvania.
Aims to give a clear and simple presentation.

Moxey, Louis White. 657.524 M94
The electrical contractor; principles of cost-keeping and estimating, wiring and illumination calculations and other technical problems of the business. 1916. McGraw.
Largely reprinted from the "Electrical world." Includes many forms.

Nicholson, Jerome Lee. 657.524 N31c
Cost accounting; theory and practice. 1913. Ronald Press Co. (Ronald accounting series.)
Concise, practical manual. For the student, the public accountant and the manufacturer. Narrower in scope and less exhaustive than author's "Factory organization and costs."

Scovell (Clinton H.) & Co. New York. r 657.524 S43
[Cost accounting; a collection of pamphlets. 1913-14.]

Contents: The relation of the cost department to the factory organization; The essentials in paper mill cost accounting; Methods of cost and clear accounting essential to efficient mill management, by C. H. Scovell.—Cost accounting for box manufacturers, by C. A. Albers.

Wild, John A. r 657.524 W71
Cost of production; an explanation of principles and a guide to practice for the printing & allied trades. 1909. Gee.

Endeavors "to define the basic principles of ascertaining cost...Though specially written for the printing and allied trades, the principles can be applied to almost any manufacturing business." *Preface.*

Wildman, John Raymond. 657.524 W71
Principles of cost accounting. 1914. New York University Press.
Brief, elementary text-book.

Ohio—Public utilities commission. r 657.6213 O18
Uniform classification of accounts for electric utilities [tentative], effective Jan. 1, 1915. 1914.

United States—Census bureau. r 657.6281 U25
Uniform accounts for systems of water supply. 1911.

United States—Interstate commerce commission. r 657.654 U25
Uniform system of accounts for telegraph and cable companies (exclusive of wireless telegraph companies) as prescribed by the commission in accordance with section 20 of the act to regulate commerce; effective on Jan. 1, 1914. 1913.

With this are bound: "Uniform system of accounts for telephone companies; effective on Jan. 1, 1913," and "Uniform system of accounts for express companies; effective on July 1, 1914."

Supplemented by the "Accounting bulletin" (r 657.65 U25).

- International Correspondence Schools, Scranton, Pa.** 657.656 I24
 Railroad agency accounting, railroad general-office accounting.
 1913-14. International Textbook Co. (International library of technology, v.129.)
The same.....r 657.656 I24

658 Business methods

- Allen, Frederick James.** 658 A42
 Business employments. 1916. Ginn.
Contents: Employment opportunities on the business side of manufacture.—Modern retail trade as illustrated by the department store.—Finance as illustrated by banking.
 "Bibliography," p.203-208; "Business and trade journals," p.209-211.
- Brandeis, Louis Dembitz.** 658 B69
 Business; a profession [and other papers]. 1914. Small.
Other papers: The employer and trades unions.—Hours of labor.—Organized labor and efficiency.—The road to social efficiency.—Our new peonage, discretionary pensions.—The incorporation of trades unions.—How Boston solved the gas problem.—Life insurance, the abuses and remedies.—Savings bank insurance.—Successes of savings bank life insurance.—Trusts and efficiency.—Trusts and the export trade.—Competition that kills.—The New England transportation monopoly.—The New Haven, an unregulated monopoly.—An aid to railroad efficiency.—The opportunity in the law.
 "Brandeis" by Ernest Poole, p.9-56.
- Brisco, Norris Arthur.** 658 B75
 Economics of business. 1913. Macmillan.
 "References" at the end of each chapter.
 Attempts to present the fundamental principles underlying business. Based largely on analysis of personal experience of successful business men. Includes organization, buying, selling, advertising, credit and patents.
- Galloway, Lee.** r 658 M76 v.2
 Organization and management. 1916. Alexander Hamilton Institute. (In *Modern business*, v.2.)
- International Correspondence Schools, Scranton, Pa.** 658 I24
 Bookkeeper's handbook; a convenient reference book for bookkeepers and business men. 1911.
 Binder's title reads "I. S. C. handbook for bookkeepers."
 Compilation of general information on office methods. Not a complete course in bookkeeping.
- International Correspondence Schools, Scranton, Pa.** 658 I24b
 Business man's handbook; a convenient book of reference for business men. Ed.2. 1904.
 Binder's title reads "I. C. S. handbook for business men."
 Compilation of general business information and instruction in office methods. Designed to promote extension of the correspondence courses of this school.
- International Correspondence Schools, Scranton, Pa.** 658 I24s
 Stenographer's and correspondent's handbook; a reference work on stenographic and typewriting methods, business correspondence, diction, modern office practice, postal information and allied subjects. 1910.
 Binder's title reads "I. C. S. handbook for stenographers and correspondents."
 Compilation of general information on office methods. Does not attempt to teach stenography.

r 658 M76

Modern business; a series of 18 texts, especially prepared for the Alexander Hamilton Institute course in accounts, finance and management; ed. by J. F. Johnson. 12v. 1915-16. Alexander Hamilton Institute.

- v.1. Economics, by E. S. Meade.
- v.2. Organization and management, by Lee Galloway.
- v.3. Marketing methods and salesmanship: Marketing methods, by R. S. Butler; Selling [and] Sales management, by H. F. De Bower and J. G. Jones.
- v.4. Advertising, by Harry Tipper and G. B. Hotchkiss.
- v.5. Correspondence, credits and traffic: Business correspondence, by G. B. Hotchkiss; Credit and the credit man, by P. P. Wahlstad; Traffic, by P. B. Kennedy.
- v.6. Accounting practice, by Leo Greendlinger and J. W. Schulze.
- v.7. Auditing and cost finding: Auditing, by Seymour Walton; Cost finding, by D. S. Kimball.
- v.8. Corporation finance, by W. H. Lough [and] F. W. Field.
- v.9. Banking: Banking principles, by J. F. Johnson; Banking practice, by H. M. Jefferson; Foreign exchange, by Franklin Escher.
- v.10. Investment and speculation, by Thomas Conway [and] A. W. Atwood.
- v.11. Insurance and real estate: Insurance, by E. R. Hardy; Real estate, by Walter Lindner.
- v.12. Commercial law, by C. W. Gerstenberg and T. W. Hughes.

Stockwell, Herbert Grant.

658 S86

Essential elements of business character. 1911. Revell.

Deals with economy, energy, reliability, and other fundamentals of business ethics and experience.

Teller, William Pierre, & Brown, H. E.

658 T27

First book in business methods. 1903. Rand.

Also published under the title "Modern business methods."

Useful elementary guide. Directions are clear and to the point.

Tipper, Harry.

658 T49

The new business. 1914. Doubleday.

"Collateral texts" at the end of many of the chapters.

Published for the Associated Advertising Clubs of the World.

qr 658.05 B96

Business [Detroit; monthly], April 1908-1914. v.20, no.10-v.33. 1908-14.

The title for various numbers of this magazine has read "Book-keeper."

For v.17, no.7-v. 20, no.9, see preceding catalogue, v.6, under title "Business man's magazine."

r 658.05 B965

Business world; an office magazine [monthly], 1898-1907. v.18-27. 1898-1907.

v.18-20, no.8, 1898-Aug. 1900, title reads "Business." Merged with "Public accountant," Sept. 1900; v.20, no.9-v.22, Sept. 1900-01, title reads "Business and the public accountant;" v.22-27, 1902-07, title reads "Business world."

No number issued in July 1907.

Evaluation of public utilities

For Depreciation, see 657.453

Bibliography

American Society of Civil Engineers.

r 016.6581 A51

Bibliography on valuation of public utilities; comp. by the library staff of the society, Dec. 23, 1915. Amer. Electric Railway Assoc.

National Association of Railway Commissioners. r 016.6581 N15

Select list of references on the valuation of public service corporations; comp. by M. M. Rosemond. [1912.]

General works**Floy, Henry.** 658.1 F67

Valuation of public utility properties. 1912. McGraw.

Mainly a compilation from material that has appeared in technical papers, reports of commissions, court decisions, etc., aiming to give a summary of the best practice.

"The aim has been to indicate, if possible, the line along which theory and practice seem likely to be standardized." *Preface.*

Floy, Henry. 658.1 F67v

Value for rate-making. 1916. McGraw.

Discusses principles which in the author's opinion should determine the value of public utility properties for rate-making purposes, a value which will differ from that established for sale or for taxation purposes.

Foster, Horatio Alvah. 658.1 F81

Engineering valuation of public utilities and factories. 1912. Van Nostrand.

"Bibliography," p.330-332.

Subject is too broad to be treated in detail in a single volume. Author has therefore condensed much of the theory, expanding only those elements which will be of greatest interest to engineers. Though he describes his book as "almost rudimentary," it forms a concise working guide to appraisal of various public utilities and industrial plants. Considerable attention to depreciation, to forms for use in making a valuation and to important court decisions.

Hayes, Hammond Vinton. 658.1 H37

Public utilities; their cost new and depreciation. 1913. Van Nostrand.

Concise work dealing with problem mainly from engineering point of view.

Knowles, Morris. r 658.1 K35

Going value and methods of determination; address delivered at annual meeting of the Pennsylvania Water Works Association at Atlantic City, N. J., 1911.

Object is to present the trend of modern thought; to show how opinions have been modified by the recent idea of regulation of public utilities; and to suggest some principles to guide in determining this intangible value.

Whitten, Robert Harvey. 658.1 W65

Valuation of public service corporations; legal economic phases of valuation for rate making and public purchase. 1912. Banks Law Pub. Co.

"Bibliography of valuation and depreciation," p.721-745.

"The most important and systematic treatise on the legal and economic phases of the valuation of public utilities yet written for the engineer. The volume is equipped with an excellent index. Besides bringing together for the first time practically all of the legal and economic information which the engineer needs as a guide in valuation work, it will also interest managers of public service companies, accountants and attorneys." *Electrical world*, 1912.

—Supplement. 1914.....658.1 W65a

- Wyer, Samuel S.** 658.1 W98
Regulation, valuation and depreciation of public utilities. 1913. Sears.
"Selected bibliography," p.252-275.

"This book is not a partisan appeal for the rights either of the public or the public utilities. Rather, it is an unbiassed discussion and concise compilation of the pertinent economic, engineering and legal facts relating to both." *Chapter 1.*

- American Electric Railway Association.** 658.162133 A51

Studies in the cost of urban transportation service, by F. W. Doolittle, director Bureau of fare research. 1916.

"Selected list of references on valuation and depreciation," p.66-70.

Comprehensive summary, presenting results of various investigations made during 1914-15. Discusses elements of cost and service, and conditions in several cities which have attempted fare reduction. Has chapter on standards of service proposed or adopted by various communities.

- Slippy, John Clifford.** 658.1654 S63

Telephone appraisal practice. 1915. Privately printed. Pittsburgh.

"Bibliography," p.98.

First book to deal at all fully with evaluation of telephone systems. Valuable to the engineer, the manager and the accountant. Subject is treated by the "cost of reproduction" method.

Buying and selling

Buying

658.31 P98

Purchasing problems; buying and hiring, buying stocks, materials and equipment, follow-up methods and order systems, building up and handling the working force. 1914. Shaw. (Students' business book series.)

Collection of brief articles by various authors.

- Rindsfoos, Charles Siesel.** 658.31 R47

Purchasing. 1915. McGraw.

Rather brief guide for the purchasing agent, considering his qualifications, and discussing departmental organization, methods and forms.

- Twyford, Harry Beaumont.** 658.31 T94

Purchasing; its economic aspects and proper methods, with charts, diagrams and forms. 1916. Van Nostrand.

Theory and practice, illustrated by forms in use by various companies.

Selling

Bibliography

- Special libraries.** qr 016.65832 S74

List of references on the cost of selling, by H. H. B. Meyer. 1916.

"Special libraries," v.7, no.3, March 1916.

General works

- Atkinson, William Walker.** 658.32 A87

Psychology of salesmanship. 1913. Towne.

Discusses the elementary principles of psychology, and attempts to apply them to advertising and selling goods. Quotes freely from other authors.

- Fisk, James W.** 658.32 F53

Retail selling; a guide to the best modern practice. 1916. Harper. (Harper's retail business series.)

Hirschler, Diana. 658.32 H61
The art of retail selling; a textbook for salespeople. 1909. New York Institute of Mercantile Training.

Deals largely with ethics of salesmanship and with personal attributes of the successful salesperson. Gives brief information about various commercial products.

International Correspondence Schools, Scranton, Pa. 658.32 I24
Profession of salesmanship, methods of marketing, health and appearance, self-study and development, study of the customer, successful reasoning, study of goods or service, the conducting of sales, retail salesmanship. 1911-12. International Textbook Co. (International library of technology, v.118.)

The same.....r 658.32 I24

International Correspondence Schools, Scranton, Pa. 658.32 I24s
Selling to dealers, selling of specialties, long-range salesmanship, sales organization and management, credits and collections, law that salesmen should know, correct and faulty diction, selling one's own service. 1912. International Textbook Co. (International library of technology, v.119.)

The same.....r 658.32 I24s

r 658 M76 v.3

Marketing methods and salesmanship. 1916. Alexander Hamilton Institute. (In *Modern business*, v.3.)

Contents: Marketing methods, by R. S. Butler.—Selling [and] Sales management, by H. F. De Bower and J. G. Jones.

Maxwell, William Morey. 658.32 M52
Salesmanship. 1914. Houghton.

Author writes interestingly from his own experience as a traveling salesman. Also discusses "over-the-counter sales" from observation, and from the standpoint of the customer.

Nystrom, Paul Henry. 658.32 N55
Retail selling and store management; prepared in the Extension division of the University of Wisconsin. 1914. Appleton. (Commercial education series.)

Practical advice on buying for a retail store, retail credits and collections, store organization, advertising, window display, salesmanship methods and other problems of store policy.

658.32 S46

Selling methods; fire insurance. Shaw. (Students' business book series.)

Contents: How to get business in line.—How to advertise an insurance business.—How to sell fire insurance.—How to hold business in line.—Winning business through service to clients.

System Co. pub. 658.32 S99hw

How to sell more life insurance; specific methods of finding and following up prospects, clever ways of winning an audience, how to plan an interview and present a proposition, new schemes for landing the policy, how to increase the client's insurance; schemes and plans proved in the field by insurance salesmen. Ed.2. 1911. (System "how books.")

Short articles reprinted in part from "System."

System Co. pub.

658.32 S99ho

How to sell real estate at a profit; proved methods for starting and conducting a real estate business, publicity campaigns that bring results, tried and tested plans for building up a clientele, specific systems for executing sales and rentals as used successfully by 32 real estate concerns. Ed.7, rev. 1910. (System "how books.")

Short articles on advertising and office methods in selling and renting real estate. Mainly reprinted from "System."

Woodworth, Stanley.

658.32 W87

Success in salesmanship. 1912. Amer. School of Correspondence.

Logical presentation of application of first principles of salesmanship. Gives much good advice to the beginner and student.

Hoyt, Charles Wilson.

658.321 H86

Scientific sales management; a practical application of the principles of scientific management to selling. 1913. Woolson.

By a consulting sales and advertising manager, who has had long and successful experience in advertising and selling.

Selecman, Edgar H.

658.321 S46

The general agent; or, Methods of sales organization and management. 1910. Progress Co.

Suggestions on selection, instruction and handling of salesmen.

System Co. pub.

658.322 S99

How to increase your sales; plans that have won new buyers, how to develop trade and keep it, tried out methods for handling every point and step in making sales and holding customers, proved systems for listing and following up prospects and customers; selling plans used and proved by salesmen and sales managers. Ed.7, rev. 1910. (System "how books.")

Short articles by various authors.

Credit. Collection

Blanton, Ben H.

658.51 B53

Credit; its principles and practice; a practical work for credit men, presenting the principles and practice involved in modern credits and collections, with an explanation of bankruptcy proceedings. 1915. Ronald Press Co.

Contents: Credit office routine.—Credit information and protection.—The collection department.—Insolvency.—Appendix: Forms; The bankruptcy act.

"Part 4, which deals with insolvency, is the only part of the book at all technical ...The point of view for the most part is that of the layman." *Preface.*

r 658 M76 v.5

Correspondence, credits and traffic. 1916. Alexander Hamilton Institute. (In Modern business, v.5.)

Contents: Business correspondence, by G. B. Hotchkiss.—Credit and the credit man, by P. P. Wahlstad.—Traffic, by P. B. Kennedy.

Hagerty, James Edward.

658.51 H14

Mercantile credit. 1913. Holt.

Rather full discussion of the problems of mercantile credit. Deals with work of the credit man, office organization, sources of credit information, and development of legislation with reference to credit.

658.51 M63

Mercantile credits; a series of practical lectures delivered before the Young Men's Christian Association of Los Angeles, California, by M. M. Kallman [and others]. 1914. Ronald Press Co.

Contents: System and efficiency in the credit department, by M. M. Kallman.—Credit department methods, by A. K. Care.—Bank credits, by J. M. Elliott.—Financial statements, their form and analysis, by Herman Flatau.—Commercial agencies and reports, by E. R. Purdy.—Credits and collections, by C. A. Parmalee.—Audits and investigations, by W. C. Mushet.—Liens on personal property, by N. P. Conrey.—Liens on real estate, by L. C. Gates.—Frauds, by W. J. Ford.—Amicable adjustment with insolvent debtors, by F. C. DeLano.—Bankruptcy, by W. T. Craig.—Insurance in commercial affairs, by W. C. Kennedy.—Corporations, by F. G. Finlayson.

Cassell, Ralph Joseph.

658.52 C26

The art of collecting; a statement of the underlying principles and practices of collecting, with suggestions, forms of reports, letters, etc. for the collection manager and the business man. 1913. Ronald Press Co.

Considers collection of both large and small accounts, methods of collection agencies and correspondence, and touches briefly on legal problems.

Store management

[Appel, Joseph Herbert, & Hodges, L. M. comp.]

658.61 A64

Golden book of the Wanamaker stores; jubilee year, 1861–1911. 1911.

The same.....r 658.61 A64

Does not go into details of organization and working of a department store but is concerned with history and development of Wanamaker system of stores, with emphasis on the introduction of progressive innovations. Laudatory in style.

Bayley, J. Ernest.

658.612 B33

Drapery business organisation, management and accounts. [1912.]

Pitman.

The methods and principles here set forth, while intended for the retail dry goods business, will be applicable in other lines of trade.

[Burroughs Adding Machine Company, Detroit.]

658.612 B94

David Pender, the million-a-year retail grocer. 1915.

Story of a young man whose remarkable success in business came solely from his own efforts. Some attention to importance of modern accounting methods.

Burroughs Adding Machine Company, Detroit.

658.612 B94r

The rise of Richard F. Brune, grocer. 1915.

"At twelve Dick Brune came in the steerage to America with three dollars, unable to read or write English. After less than ten years as a retailer, he is a wealthy grocer in a western city. The true story of his struggles reads like fiction." [Introductory note.]

Farrington, Frank.

658.612 F25

Store management complete. 1911. Byxbee Pub. Co.

Brief chapters on location, arrangement, buying, store policy, management of clerks, credit, premiums, etc.

O'Connor, Daniel Charles.

658.612 O13

Treatise on commercial pharmacy; intended as a reference book and a text-book for pharmacists and their clerks. 1912. Lippincott.

Deals solely with business methods as applied to pharmacy establishment and management; store service, buying, salesmanship, window display and advertising.

- O'Leary, Iris Prouty.** 658.612 O23
Department store occupations. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

Outline of business opportunities in retail stores, with special reference to conditions in department stores, five and ten cent stores, and "neighborhood" stores in Cleveland.

- Parlin, Charles Coolidge.** r 658.612 P24
The merchandising of textiles. National Wholesale Dry Goods Association.

Address delivered before the 10th annual convention of the National Wholesale Dry Goods Association.

Industrial management

- Arnold, Horace Lucian, (pseud. Henry Roland), & Faurote, F. L.** q 658.7 A75

Ford methods and the Ford shops. 1915. Engineering Magazine Co. (Works management library.)

Reprinted from "Engineering magazine."

Illustrated description of the shop system and practice in manufacturing Ford automobiles. Written with the cooperation of Ford officials.

"To the manufacturer, manager, or engineer confronted by the problems of mechanical production this exposition will excel in interest and value anything of the kind heretofore attempted, not only by the intrinsic quality of the text and illustrations, but by their exposition of what is up to now the final word in efficient, standardized, repetitive production." *C. B. Going, in Preface.*

- Church, Alexander Hamilton.** 658.7 C46s
Science and practice of management. 1914. Engineering Magazine Co. (Works management library.)

Based on a series of articles which appeared in the "Engineering magazine," v.44-45, Jan.-June 1913, under the title "Practical principles of rational management."

Attempts to present fundamental principles which will facilitate the analysis and classification of existing systems of management.

"A distinct step forward in the expression and elucidation of those definite principles based on exact knowledge of facts upon which the science must rest." *Journal of accountancy, 1914.*

- Dartmouth College—Amos Tuck school of administration and finance.** 658.7 D26

Addresses and discussions at the conference on scientific management held Oct. 12-14, 1911. 1912. (Dartmouth College conferences. First Tuck school conference.)

Binder's title reads "Scientific management."

By the leading authorities on the subject as at present developed (1911).

- Dean, Stuart.** 658.7 D34
Shop and foundry management [shop methods that paid dividends]. 1913. Williams

Consists mainly of articles from the "Iron age." Author is (1913) superintendent of the Dean Brothers Steam Pump Works.

- Diemer, Hugo.** 658.7 D57a
Factory organization and administration. Ed.2, rev. & enl. 1914. McGraw.

"Bibliography of works management," p.356-370.

A distinct addition to the literature of scientific management. Begins with the

- Diemer, Hugo**—*continued*. 658.7 D57a
 economics of factory location and arrangement and considers all phases of organization, executive control, department work and wage systems. Author's experience has been unusually diversified, and he writes with the clearness and decision of one thoroughly familiar with the subject. Bibliography gives an excellent analysis of selected literature, but unfortunately is not quite up to date.
- Duncan, John Christie**. r 658.7 D89
 Economic side of works management. 1911. [Appleton.]
 Thesis for Ph. D., University of Pennsylvania.
The same. (In his *Principles of industrial management*, p.183–316.) 658.7 D89
- Efficiency Society**. r 658.7 E33
 Transactions, 1912. v.1. 1913.
- Emerson, Harrington**. 658.7 E58t
 The twelve principles of efficiency. 1912. Engineering Magazine.
 Supplementary to his "Efficiency as a basis for operation and wages."
 Appeared in "Engineering magazine," v.39–40, June 1910–Sept. 1911.
- Ennis, William Duane**. 658.7 E65
 Works management. 1911. McGraw.
 Aims to give rather the underlying principles of factory management than details of mechanical method. Discusses and studies cost elements, industrial organization and the physical basis of an industry.
- Gantt, Henry Laurence**. 658.7 G17i
 Industrial leadership. 1916. Yale University Press.
Contents: Industrial leadership.—Training workmen.—Principles.—Results of task work.—Production and sales.
 Lectures before the senior class of the Sheffield scientific school, Yale University, discussing industrial management.
- Gilbreth, Frank Bunker**. 658.7 G38p
 Primer of scientific management, with an introduction by L. D. Brandeis. 1912. Van Nostrand.
 As a result of printing Taylor's "Principles of scientific management" in the "American magazine" in 1911, the publishers received numerous questions. This "Primer" is Mr Gilbreth's attempt to classify and answer these varied questions; it is therefore not offered as a complete systematic treatise. Deals concisely with the terminology of scientific management, with principles, their applications and results, and with the relation of scientific management to other activities.
- Gilbreth, Mrs Lillian (Moller)**. 658.7 G384
 The psychology of management; the function of the mind in determining, teaching and installing methods of least waste. 1914. Sturgis.
- Gowin, Enoch Burton**. 658.7 G75
 The executive and his control of men; a study in personal efficiency. 1915. Macmillan.
 "Readings" at the end of each chapter.
 Considers the individuality and personality of the successful executive, his methods of stimulating and controlling men, the response of his organization to his methods, and the limitations by which he is likely to be influenced.
- Hoxie, Robert Franklin**. 658.7 H86
 Scientific management and labor. 1915. Appleton.
 "Questionnaire: Scientific management and labor; investigation by the United States commission on industrial relations," p.199–302.
 "Based upon an investigation...made by the writer for the United States Commissioner on Industrial Relations." *Preface*.

Kent, William, b. 1851.

658.7 K19

Investigating an industry; a scientific diagnosis of the diseases of management. 1914. Wiley.

Appeared in "Industrial engineering," v.13, Feb.-Oct. 1913.

Gives briefly the story of an examination of the details of a manufacturing business. Author argues that "scientific management" should not be confined to shops, but should extend to every department of industry.

Kimball, Dexter Simpson.

658.7 K25

Principles of industrial organization. 1913. McGraw.

Contains bibliographies.

Deals broadly and clearly with general principles of the various aspects of industrial management. Considerable space to evolution of industrial conditions and effect of new inventions.

"It is not the purpose of the book to exploit any form of industrial management or any specific remedy for industrial evils, but it is an endeavor to set before young men entering the industrial field the salient facts regarding the most important movements with which they are sure to be brought into contact, and to explain the origin and growth of the important features of industrial organization." *Preface.*

Knoeppel, Charles Edward.

q 658.7 K34i

Installing efficiency methods. 1915. Engineering magazine. (Works management library.)

Author attempts to give practical working instructions based on his own experience.

Knoeppel, Charles Edward.

658.7 K34

Maximum production in machine-shop and foundry. 1911. Engineering Magazine. (Works management library.)

Appeared in "Engineering magazine," v.36-41, 1908-1911.

Applies especially to foundry practice and gives much practical, suggestive information on methods of organization and management and cost apportionment.

Leake, Percy Dewe.

658.7 L45

Depreciation and wasting assets and their treatment in assessing annual profit and loss. 1912. Good.

Timely book on a subject which has hitherto received inadequate attention. A scientific study of the depreciation of industrial plants and public utilities. Too theoretical for popular use.

Lewis, Elias St. Elmo.

658.7 L67

Getting the most out of business; observations of the application of the scientific method to business practice. Ed.4. 1916. Ronald Press Co.

Lodge, William.

658.7 L76

Rules of management, with practical instructions on machine building. 1913. McGraw.

Largely made up of instructions for the guidance of officers and department-heads of a company manufacturing machine-tools, but applicable also in other establishments. Elementary, from the efficiency point of view. Author is (1913) president of the Lodge and Shipley Machine Tool Company.

Parkhurst, Frederic Augustus.

658.7 P24

Applied methods of scientific management. 1912. Wiley.

Amplification of articles in "Industrial engineering," 1911.

One of the most practical books on the subject. Based on methods of the Ferracute Machine Co. Particularly adapted to a business with 100 or more employees.

Schaff, Schuyler Renwick.

658.7 S29

Essential points governing the financial value of an engineering property. 1912. Privately printed.

Treats briefly the commercial features that should be considered before financing engineering works. Considers water-supply systems, railroads, hydraulic power systems, land drainage, irrigation, and bridges and viaducts.

Scott, Walter Dill.

658.7 S43

Increasing human efficiency in business; a contribution to the psychology of business. 1911. Macmillan.

Discusses the possibility of increasing human efficiency, considering as the various means to this end: imitation, competition, loyalty, concentration, wages, pleasure and relaxation.

Seabrook, Arthur Hugh.

658.7 S438

Management of public electric supply undertakings. 1913. McGraw.

Covers the commercial side of electricity supply, considering organization, staff, and office and sales methods. Considers British conditions only.

Smith, Joseph Russell.

658.7 S65

Elements of industrial management. 1915. Lippincott.

Based on course in Wharton school of finance and commerce, University of Pennsylvania.

System Co. pub.

658.7 S99

How scientific management is applied; how the one best way is found and put into practice, how standards are set, who carries them into effect, how men are trained and paid, how production, wages and profits are increased; based on the experience-tried methods used in eight factories. Ed.2, rev. 1911. (System "how books.")

Short articles by various authors.

System Co. pub.

658.7 S99h

How to get more out of your factory; a factory manager's notebook of cost-cutting experiences, how to get the largest return from labor, how to increase machine output, how new equipment has brought results, how buildings help to pay profits; specific working plans by which aggressive managers have cut their factory costs. Ed.4. 1911. (System "how books.")

Deals briefly with factory arrangement, equipment, and systems of management.

Thompson, Clarence Bertrand, ed.

658.7 T37

Scientific management; a collection of the more significant articles describing the Taylor system of management. 1914. Harvard University Press. (Harvard business studies, v.1.)

"Bibliography of scientific management," p.863-878.

An intelligent classification and summary of the extensive literature on this subject since 1832, with a collection of abstracts and reprints on efficiency, wage systems and standardization. Papers included represent efforts of the leading workers in this field, but inevitably present many conflicting opinions.

United States—Special committee to investigate the

r 658.7 U25

Taylor and other systems of shop management.

Taylor and other systems of shop management [report of committee. 1912]. (62d cong. 2d sess. House. Report no.403.)

Brief report, concluding that no one of the systems of so-called "scientific management" has, so far, proved its value to the extent of justifying its adoption in government works. Recommends further study and attention to standardization and systematization.

Van Deventer, John Herbert.

658.7 V17

Handbook of machine shop management. 1915. McGraw.

Presentation of data on various principles of machine-shop work and management. Does not offer any complete system, but discusses good features of systems in general.

Taylor Society.

qr 658.705 T25

Bulletin, Dec. 1914-Dec. 1916. v.1-v.2, no.5. 1914-16.

Name of society was changed from "Society to Promote the Science of Management" to "Taylor Society," Dec. 1915.

Employment methods

Blackford, Katherine M. (Huntsinger), & Newcomb, Arthur.

658.72 B51

The job, the man, the boss. 1914. Doubleday.

"What is known as the Blackford employment plan, evolved from many years of experience in the work of assisting employers in the selection and assignment of employees, is set forth...Not only does this book point out to the employer a means by which a man's qualities may be analyzed with reference to a particular job, but it shows the man himself certain definite criteria by which he may decide what kind of work he is best fitted to do." *Review of reviews*, 1914.

Considerable space is devoted to the reading of character from the form and expression of the face.

Bloomfield, Meyer, & Willits, J. H. ed.

658.72 B56

Personnel and employment problems in industrial management. 1916.

Contents: The place of the human element in industrial management.—The functionalized employment department.—Unnecessary hiring and firing of employees.—The securing, selection and assigning of employees.—The employee at work.

v.65, May 1916, of the "Annals of the American Academy of Political and Social Science."

The same. (In American Academy of Political and Social Science. Annals, v.65.).....r 306 A51 v.65

Supplemented by "Steadying employment," by J. H. Willits (331 W75).

659 Advertising

Bibliography

Associated Advertising Clubs of America.

r 016.659 A84

Nucleus for an ad club library.

Special libraries.

qr 016.659 S74

List of references on advertising; comp. under the direction of H. H. B. Meyer. 1916.

"Special libraries," v.7, no.4, April 1916.

General works

Ayer (N. W.) & Son, pub.

r 659 A97

Better business. 1914.

[**Ayer (N. W.) & Son, pub.**]

qr 659 A97s

Show windows of an advertising agency. 1915.

Reprinted from "Printers' ink."

Advertisements calling attention to Ayer publicity work in connection with various widely advertised products.

Boulder, pseud.

659 B65

Hidden causes of reckless advertising waste. 1913. Lord.

Reprinted from "Judicious advertising."

Analyzes various methods of advertising and selling, pointing out defects.

- Casson, Herbert Newton.** 659 C26
 Ads and sales; a study of advertising and selling from the standpoint of the new principles of scientific management. 1911. McClurg.
 Discussion of the evolution of advertising, outline of the principles of successful advertising and a clear analysis and criticism of modern methods.
- Chasnoff, Joseph Edwin.** 659 C39
 Selling newspaper space; how to develop local advertising. 1913.
 Roland Press Co.
 Based on lectures to students of advertising in School of Journalism at University of Minnesota. Considers only the field of local display advertising.
- Cherington, Paul Terry, comp.** 659 C42
 Advertising as a business force; a compilation of experience records.
 1913. Associated Advertising Clubs of Amer.
 Purpose is to provide a text for the individual instruction work for the Educational committee of the Associated Advertising Clubs of America. Comprehensive work, largely compiled from advertising journals.
- Curtis Publishing Company, Philadelphia.** 659 C93
 Selling forces. 1913.
The same.....r 659 C93
 History, methods and results of national advertising, with special reference to publications of the Curtis Publishing Company.
- Hess, Herbert William.** 659 H48
 Productive advertising. 1915. Lippincott.
 "Collateral readings" at the end of many of the chapters.
 Text-book, attempting to establish principles which may be applied in advertising campaigns.
- Hollingworth, Harry Levi.** 659 H72
 Advertising and selling; principles of appeal and response. 1913.
 Appleton.
 "Books and articles referred to in the text or recommended for further reading," p.306-309.
 Study of the psychology of advertising, but intended for the student with practical rather than theoretical interests.
- International Correspondence Schools, Scranton, Pa.** 659 I24ad
 Advertiser's pocketbook; a book of reference dealing with plans, copy, typography, illustration, mediums, management and other details of advertising practice. 1911.
 Binder's title reads "I. C. S. handbook for advertisers."
 Compilation containing general information. Not a course in advertising.
- Martin, Mac.** r 659 M42
 Planning an advertising campaign for a manufacturer. 3 pts. in iv.
 1914. (Minnesota University. Bulletin; general series, 1914, no.8.)
Contents: Analysis of the product.—Analysis of the markets.—Analysis of the channels of distribution.
- Mason, Harry Beckwith, ed.** 659 M44
 Window displays for druggists; comprising for the most part engravings and descriptions of over 100 attractive displays which have been designed and used with success by druggists throughout the country, together with some useful suggestions on the subject of window dressing in general. Ed.2. 1910. Swift.
 Displays originally described in "Bulletin of pharmacy."

Parsons, Frank Alvah.

q 659 P26

Principles of advertising arrangement. 1912. Prang.

Not concerned with writing of advertisements, but with technique of construction and display, and the significance of form, color, balance, typography and illustration in effective advertising.

Richardson, A. O.

659 R41

Power of advertising. 1913. Lambert Pub. Co.

Discussion of methods, with some attention to various mediums. Largely criticism of and comment on selected examples of actual advertising.

Starch, Daniel.

659 S79

Advertising; its principles, practice and technique. 1914. Scott.

Elementary text-book with many problems.

System Co. pub.

659 S99

How to increase a bank's deposits; tried out plans that attract commercial accounts and savings deposits, advertising campaigns and ideas that pull, soliciting schemes and follow-up systems that produce results, selling talks that create business as used and proved successful in 26 banks. Ed.6, rev. 1910. (System "how books.")

Articles on bank advertising, by D. V. Casey and B. C. Dean.

Tipper, Harry, & Hotchkiss, G. B.

r 658 M76 v.4

Advertising; a practical presentation of the principles underlying the planning of successful advertising campaigns and the preparation of advertising copy. 1916. Alexander Hamilton Institute. (In Modern business, v.4.)

Tipper, Harry, and others.

659 T49

Advertising; its principles and practice. 1915. Ronald Press Co.

"Includes the economic, psychological, and physical factors, together with the essential principles of artistic arrangement and English composition as applied to the construction of advertisements." *Preface.*

Text-book based on advertising course at New York University. Like many other books on this subject, it contains examples of advertising, with comments and criticisms.

Wasson, Guy George.

659.132 W28

How to compile a catalog; the art of compiling copy, selection of illustrations, with other valuable information for the advertiser. 1915. Tiernan-Dart Printing Co.

Suggestions for preparation of trade catalogues. Of interest to business men and manufacturers, as well as to printers and advertising men.

Wilson, George Frederick.

659.132 W76

The house organ; how to make it produce results. 1915. Washington Park Pub. Co.

The first important work on this subject. The practical advice on material and on mechanical make-up should do much to improve the quality of the average house organ.

Page, William Kenneth.

659.2 P14

Preparation and care of mailing lists; a working manual that covers every phase of list handling. 1914. Addressograph Co.

Information on methods, and sources of information in compiling mailing-lists. Calls attention to various special directories and other sources likely to be overlooked. Published in the interests of the Addressograph Co.

660 Chemical technology

For General chemistry, see 540

Bibliography

England—Patent office—Library. r 016.66 E64su

Subject list of works on chemical technology (including oils, fats, soap, candles and perfumery, paints, varnishes, gum, resins, india-rubber, paper and leather industries) in the library [comp. by W. T. Franks]. 1911. (Patent office library; subject list, new series.)

Supersedes its "Subject list of works on certain chemical industries."

England—Patent office—Library. r 016.66 E64s

Subject list of works on peat, destructive distillation, artificial lighting, mineral oils and waxes, gaslighting and acetylene. 1911. (Patent office library; subject lists, new series.)

Supersedes its "Subject list of works on certain chemical industries; including destructive distillation, mineral oils and waxes, gaslighting, acetylene, oils, fats," etc.

General works

Benson, Henry Kreitzer. 660 B44

Industrial chemistry, for engineering students. 1913. Macmillan.

"References" at the end of each chapter.

Deals mainly with engineering materials. Treats topics briefly, but contains well-selected bibliographies.

Duncan, Robert Kennedy. 660 D89s

Some chemical problems of today. 1911. Harper.

Contents: The prizes of chemistry.—The question of the atom.—The whitherward of matter.—On the chemical interpretation of life.—The beginning of things.—On the trend of chemical invention.—Camphor, an industry revolutionized.—Bread.—Relation between chemistry and manufacture in America.—On the relation of the University of Wisconsin to the state.—Progress in industrial fellowships.

Discusses industrial research work carried on under author's supervision at the University of Pittsburgh and University of Kansas.

Findlay, Alexander. 660 F49

Chemistry in the service of man. 1916. Longmans.

Contents: Introduction.—Combustion and the production of fire.—The chemistry of illuminants.—Energy, fuel and explosives.—Cellulose and cellulose products.—Velocity of reactions and catalysis.—Fixation of atmospheric nitrogen.—Glass, soda, soap.—Electricity and chemistry.—The colloidal state.—Molecular structure.—Synthetic chemistry.

Author is a master of clear exposition. In these lectures to an audience without knowledge of chemistry, he sets forth in an interesting manner some of the more important ways in which the principles of chemistry and their application have contributed to human welfare.

Knapp, Friedrich Ludwig. r 660 K33l

Lehrbuch der chemischen technologie, zum unterricht und selbststudium. 2v. 1847-48.

Martin, Geoffrey, and others.

q 66o M42

Industrial and manufacturing chemistry; a practical treatise. 2v. in

3. 1913-17. Lockwood.

v.1. Organic.

v.2. Inorganic.

"Literature" at the beginning of many chapters.

Very complete in its inclusion of the industries based on organic chemistry, with much attention to recent developments and to newly developed industries. Each section by a specialist in the subject.

Muspratt, James Sheridan, comp.

qr 66o M98t

Theoretische, praktische und analytische chemie in anwendung auf künste und gewerbe; frei bearbeitet von F. Stohmann und Bruno Kerl. v.9, pt.13-16, v.11, pt.1-14. 1913-15.

For earlier volumes see preceding catalogue, v.4, 6.

Rogers, Allen, & Aubert, A. B. ed.

66o R6ri

Industrial chemistry; a manual for the student and manufacturer.

1912. Van Nostrand.

Contents: General processes, by Allen Rogers and A. B. Aubert.—Materials of construction, by A. B. Aubert.—Water for industrial purposes, by R. B. Dole.—Fuels, by J. C. W. Frazer.—Producer gas, by Oskar Nagel.—Power transmission, boilers, engines and motors, by W. K. Ganong.—Sulphuric acid; Nitric acid, by W. M. Grosvenor.—Salt and hydrochloric acid, by O. L. Shinn.—Commercial chemicals, by A. B. Aubert.—Chlorine and allied products, by W. F. Doerflinger.—Electrochemical industries, by W. L. Landis.—Lime, cement and plaster, by R. K. Meade.—Clay, bricks and pottery, by Allen Rogers.—Glass, by James Gillinder.—Dutch process white lead, by G. W. Thompson.—Sublimed white lead, by S. M. Evans.—Pigments, oils and paints, by Maximilian Toch.—The metallurgy of iron and steel, by Bradley Stoughton.—Fertilizers, by A. G. Stillwell.—Illuminating gas, by W. H. Fulweiler.—Coal tar and its distillation products, by F. E. Dodge.—The petroleum industry, by T. T. Gray.—The destructive distillation of wood, by W. B. Harper.—Oils, fats and waxes, by Allen Rogers.—Lubricating oils, by A. H. Gill.—Soaps, glycerine and candles, by Allen Rogers.—Laundering, by W. F. Faragher.—Essential oils, synthetic perfumes and flavoring materials, by Alois von Isakovics.—Resins, oleo-resins, gum-resins and gums, by Allen Rogers.—Varnish, by A. H. Sabin.—Sugar, by G. L. Spencer.—Starch, glucose, dextrin and gluten, by G. W. Rolfe.—Brewing and malting, by Robert Wahl.—Wine making, by N. H. Claussen.—Distilled liquors, by Allen Rogers.—Textiles, by J. M. Matthews.—Dyestuffs and their application, by L. A. Olney.—The art of paper making, by G. F. Lull.—Explosives, by O. W. Willcox.—Leather, by Allen Rogers.—Vegetable tanning materials, by J. H. Vocum.—Glue and gelatine, by Jerome Alexander.—Casein, by E. L. Tague.

"Bibliography" at the end of many of the chapters.

The same r 66o R6ri

The same. Ed.2, rev. & enl. 1915. Van Nostrand r 66o R6ra

Edited by Allen Rogers alone.

Thorpe, Frank Hall.

66o T41a2

Outlines of industrial chemistry; a text-book for students with assistance in revision from W. K. Lewis. Ed.3, rev. & enl. 1916. Macmillan.

Contains many bibliographies.

Covers the more important technological applications of chemistry. Accurate but condensed to the last degree.

Directories. Encyclopedias

Koller, Theodor.

66o.2 K36

Utilisation of waste products; a treatise on the rational utilisation, recovery and treatment of waste products of all kinds; tr. from the second revised German edition by a technical chemist. Ed.2, rev. & enl. 1915. Scott.

Compilation of various processes which have been published or patented.

qr 660.3 E66

Enzyklopädie der technischen chemie; unter mitwirkung von fachgenossen hrsg. von Fritz Ullmann. v.1-3. 1914-16.

- v.1. Abanon-äthylanilin.
 - v.2. Äthyläther-braunkohle.
 - v.3. Braunkohlenschwelerei-diastatistische malzextrakte.
- Contains bibliographies.
Exhaustive.

Thorp, Sir Thomas Edward, *comp.*

r 660.3 T41a

Dictionary of applied chemistry. Rev. & enl. ed. 5v. 1912-13.
Longmans.

- v.1. A-Che.
- v.2. Chi-Go.
- v.3. Gr-Oils.
- v.4. Oilstone-Soda nitre.
- v.5. Sodium-Z.

Villon, A. M. *comp.*

qr 660.3 V33

Dictionnaire de chimie industrielle; contenant les applications de la chimie à l'industrie, à la métallurgie, à l'agriculture, à la pharmacie, à la pyrotechnie et aux arts et métiers [completed by Pierre Guichard]. 3v. [1893-1902.]

Comprehensive and fully illustrated.

Periodicals. Societies

r 660.5 C42

Chemical engineer and manufacturer; monthly, July 1916-date. v.24-date.

For v.1-23 see preceding catalogue, v.4, under title "Chemical engineer."

qr 660.5 C421a2

Chemiker-zeitung; naturwissenschaftliche umschau [monthly], 1912-date. v.1-date. 1912-date.

Institute of Industrial Research, Washington, D. C.

r 660.5 I24

Bulletin. no.4-6. 1912-14.

For no.1-3 see preceding catalogue, v.6.

**International Congress of Applied Chemistry (8th),
Pittsburgh, 1912.**

r 660.6 I24h

Hand book of the Pittsburgh meeting. 1912. Pittsburgh.

With this are bound "Tours of foreign delegates to the Eighth International Congress of Applied Chemistry" and "Final program."

**International Congress of Applied Chemistry (8th),
Washington and New York, 1912.**

r 660.6 I24o

Original communications. 29v. in 9. [1912-13.]

- v.1-3. Analytical chemistry.—Inorganic chemistry.—Metallurgy and mining.
- v.4-9. Explosives.—Silicate industries.—Organic chemistry.—Coal tar colors and dyestuffs.—Industry and chemistry of sugar.—India rubber and other plastics.
- v.10-13. Fuels and asphalt.—Fats, fatty oils and soaps.—Paints, drying oils and varnishes.—Starch, cellulose and paper.
- v.14-17. Fermentation.—Agricultural chemistry.—Hygiene.—Pharmaceutical chemistry.
- v.18-20. Bromatology.—Biochemistry including pharmacology.—Photochemistry.

- International Congress of Applied Chemistry**—*continued*. r 660.6 I240
v.21-24. Electrochemistry.—Physical chemistry.—Law and legislation affecting chemical industry.—Political economy and conservation of natural resources.
v.25. Appendix; section 1-5e.
v.26. Appendix; section 6a-11b.
v.27-29. Discussions.—Transactions and organization.—Typographical and authors' changes.—Index.

661 Chemicals

- Lunge, George**. r 661.2 L97t2
Manufacture of sulphuric acid and alkali, with the collateral branches; a theoretical and practical treatise. Ed.4. v.1 in 3 pts. 1913. Van Nostrand.
- Wilson, Alfred William Gunning**. qr 661.214 W76
Pyrites in Canada; its occurrence, exploitation, dressing and uses. 1912.
Issued by the Mines branch of the Department of mines of Canada.
- Kingzett, Charles Thomas**. r 661.3 K27
History, products and processes of the alkali trade, including the most recent improvements. 1877. Longmans.
- Lomas, John**, *alkali manufacturer*. qr 661.3 L79
Manual of the alkali trade, including the manufacture of sulphuric acid, sulphate of soda and bleaching powder. Ed.2, enl. 1886. Lockwood.
- Tietjens, L. & Roemer, Hermann**. r 661.31 T45
Laboratoriumsbuch für die kaliindustrie. 1910. (Laboratoriumsbücher für die chemische und verwandte industrien.)
"Literaturübersicht," p.73.
Small book of analytical and testing methods for potash salts and by-products of the German potash industry.
- United States**—Foreign and domestic commerce bureau. r 661.31 U25
Potash production in California, *and* Potash from kelp, by T.H. Norton. 1915.
Reprinted from its "Commerce reports" for June 12, 19, 1915.
- Gilbert, Chester Garfield**. qr 661.62 G38
Sources of nitrogen compounds in the United States. 1916. Smithsonian Institution.
Pamphlet outlining commercial possibilities of various nitrate processes.
- Knox, Joseph**. 661.62 K35
Fixation of atmospheric nitrogen. 1914. Gurney. (Chemical monographs.)
"Bibliography," p.105-110.
Brief summary, confined to processes which are commercially practicable (1914) or show promise of becoming available. Special attention to theory.
- Stuntz, Stephen Conrad**, *comp*. r 631 U25 no.63
Reference list on the electric fixation of atmospheric nitrogen and the use of calcium cyanamid and calcium nitrate on soils. 1910. (In United States—Soils bureau. Bulletin no.63.)

United States—Manufactures bureau.

661.62 U25

Utilization of atmospheric nitrogen, by T. H. Norton. 1912. (Special agents series, no.52.)

"Bibliography," p.177-178.

The same. (In its Special agents series, no.52.) r 338 U25 no.52

Report on progress and methods in the synthetic production of ammonia, nitric acid, cyanides, calcium cyanamide, nitrides, etc. from atmospheric nitrogen.

Roux, Ulysse.

r 661.73 R78

La grande industrie des acides organiques, bitartrate de potasse, ou crème de tartre, acide tartrique, acide citrique; technologie complète, commerce, fabrication, calculs et devis d'installation. 1912.

Detailed discussion of methods and description of apparatus.

Haskell, F. W.

r 661.751 H33

The man who didn't know when he had failed.

Story of E. G. Acheson and the development of the carborundum industry.

Perrodil, C. de.

r 661.7522 P44

Le carbure de calcium et l'acétylène, les fours électriques; préface de Henri Moissan. 1897.

Describes early types of electric furnace, manufacture of calcium carbid, acetylene generators and lighting by acetylene.

Compressed Gas Manufacturers' Association.

r 661.91 C73

[Miscellaneous publications.] 1915-[16].

Barnitz, Harry L.

r 661.96 B25

Technical production of hydrogen and its industrial application. [1916.] Privately printed.

Reprinted from "Metallurgical and chemical engineering," v.14, April 1, 1916.

662 Explosives. Fuel

Explosives

Brunswick, H. comp.

662.2 B83

Explosives; a synoptic and critical treatment of the literature of the subject as gathered from various sources; tr. and annotated by C. E. Munroe and A. L. Kibler. 1912. Wiley.

"Index of authors," p.323-336.

Treatment is largely from the point of view of physical chemistry. Studies conditions of explosive reactions; velocity, pressure, temperature, resulting gases and flange.

Brunswick, H.

662.2 B83e

Die explosivstoffe; einföhrung in die chemie der explosiven vorgänge. 1907.

"Literaturübersicht," p.151-152.

Du Pont de Nemours (E. I.) Powder Co. Wilmington, Del. 662.2 D93

History of the E. I. du Pont de Nemours Powder Company; a century of success. 1912. Business America.

Also outlines uses of products, and work of different divisions, with particular attention to experimental research work.

Escales, Richard. r 662.2 E79
 Die explosivstoffe; mit besonderer berücksichtigung der neueren
 patente. v.1, 6. 1914-15. Veit.

v.1. Schwarzpulver und sprengsalpeter.

v.6. Nitrosprengstoffe (pikrinsäure, trinitrotoluol u. a.).

Valuable and rather comprehensive reference work on explosives of different compositions.

For v.2-5 see preceding catalogue, v.6.

MacDonald, George William. q 662.2 M14
 Historical papers on modern explosives, with an introduction by Sir
 Andrew Noble. 1912. Whittaker. (Specialists' series.)

These papers appeared in "Arms and explosives" during the last few years.

Reprints and condensations of papers dating back to Howard's discovery of fulminate of mercury in 1800. Relate chiefly to manufacture and investigation of gun-cotton.

Marshall, Arthur. q 662.2 M41
 Explosives; their manufacture, properties, tests and history. 1915.
 Blakiston.

An important work, the first comprehensive one in many years written in English on this subject. Deals with chemistry particularly and does not include all details of manufacturing processes.

Ramsey, Albert R. J. & Weston, H. C. 662.2 R18
 Manual on explosives. 1916. Routledge.

"Bibliography," pref. p.7.

Semi-technical manual, outlining very briefly some methods of manufacture and a few applications.

Vennin, L. & Chesneau, Gabriel. r 662.2 V26
 Les poudres et explosifs et les mesures de sécurité dans les mines
 de houille. 1914. (Encyclopédie de science chimique appliquée, v.6.)

"Liste des périodiques cités," pref. p.17-18.

Vennin deals pretty fully with theory and power of explosives, with chemistry, manufacture and tests, and with use of military and industrial explosives. Chesneau deals briefly with precautions in coal mining. Useful book, though little of the material is original.

American Railway Association—Bureau of explosives. r 662.21 A51
 General information respecting explosives and other dangerous articles, June 1, 1911. [1911.]

Concise, non-technical data on general nature and risks in transportation of inflammable and explosive substances.

Hime, Henry William Lovett. 662.3 H560
 Origin of artillery. [Ed.2, rev.] 1915. Longmans.

Contents: The origin of gunpowder.—The origin of cannon.—The origin of ammunition.

"Books often quoted," p.221.

Carefully written history, compiled from authoritative sources.

Fuel

Brame, John Samuel Strafford. 662.6 B69
 Fuel; solid, liquid and gaseous. 1914. Longmans.

Good general book on fuels and combustion, with special attention to coal.

Brislee, Francis Joseph. 662.6 B75

Introduction to the study of fuel; a text book for those entering the engineering, chemical and technical industries. 1912. Constable. (Outlines of industrial chemistry.)

Bibliography, p.259-260.

Moderately technical work on analysis and calorific values of solid, liquid and gaseous fuels, principles of combustion, and measurement of high temperatures.

Canada—Mines branch. (Department of mines.) r 662.6 C16

Peat, lignite and coal; their value as fuels for the production of gas and power in the by-product recovery producer, by B. F. Haanel. 1914.

Investigation of the feasibility of utilizing Canadian peat and lignite. Based in part on a study of European plants utilizing peat fuel.

Colomer, Félix, & Lordier, Charles. r 662.6 C72

Combustibles industriels; houille, pétrole, lignite, tourbe, bois, charbon de bois, agglomérés, coke. Ed.2, rev. & enl. 1906.

Ouvrage honoré d'une récompense de la Société d'Encouragement pour l'Industrie Nationale.

Fairly thorough discussion of properties, production and uses.

Walker, Perley F. & Bohnstengel, Walter. r 662.6 W17

Kansas fuels: coal, oil, gas; heating values and proximate analysis of coal, discussion of sulphur content of bituminous coal. 1913. (Kansas University. Engineering bulletin no.3.)

Barkley, John Ferdinand, & Flagg, S. B. 662.613 B24

Instruments for recording carbon dioxide in flue gases. 1916. (United States—Mines bureau. Bulletin no.91.)

"Selected bibliography," p.53-54.

"Publications on fuel technology," p.55-57.

The same. (In United States—Mines bureau. Bulletin no.91.)r 622.009 U25 no.91

Discusses factors which may affect accuracy in service and outlines methods of testing both indicating and recording instruments.

The carbon dioxide content of flue gases is an indicator of furnace conditions and an accurate record is a valuable aid in furnace control.

Hays, Joseph Weller. 662.613 H37

How to build up furnace efficiency; a hand-book of fuel economy. Ed.7, rev. & enl. 1914. Privately printed.

For the power-plant engineer. Practical and interesting.

Maujer, Austin Raymond, & Bromley, C. H. r 662.613 M48

Fuel economy and CO₂ recorders; a practical manual dealing chiefly with the heat losses in boilers and the principle, operation and care of CO₂ recorders. 1914. McGraw.

Appeared in the Engineers' study course from "Power."

Practical work. Explains principles of furnace and boiler working and instructs the untrained man regarding equipment and simple methods of coal analysis, flue-gas analysis, draft measurement, etc.

Coal

Brown, Myles. r 662.621 B79

Modern practice in fuel contracts and useful data for coal buyers; a handbook of special interest and value to those concerned in the sale, purchase or handling of coal. 1911. "Science and Art of Mining."

Discusses classification and heat value of various coals, and the effect of storage

Brown, Myles—*continued*.

r 662.621 B79

and weathering. Gives much valuable data tending to place the purchase of coal on a scientific basis. Touches on American methods, which are (1912) far in advance of British practice.

Cosgrove, James Francis.

662.621 C832

Coal; its economical and smokeless combustion. 1916. Technical-Book Pub. Co.

Practical, non-technical work considering coal solely from the standpoint of its proper use as fuel.

Coste, John Henry.

662.621 C83

Calorific power of gas; a treatise on calorific standards and calorimetry. 1911. Griffin. (Griffin's scientific text-books.)

Discusses relationship between illuminating power and calorific power and the impracticability of attempting to deduce the latter from the former. States advantages of a calorific standard, arguing for its wider adoption (in England, where it has received less attention than in the United States). Deals briefly with gas analysis and in detail with calorimetric methods and appliances.

Coste, John Henry, & Andrews, E. R.

662.621 C83e

Examination and thermal value of fuel; gaseous, liquid and solid. 1914. Griffin.

Deals with scientific testing and comparison of fuels and with the methods and appliances used. Especially good on calorimetry. Companion volume to Coste's "Calorific power of gas."

Fuel Engineering Company of New York.

662.621 F97

The business of making your own power at a profit; a series of short business talks on that part of industrial power production which consists of those things we do or fail to do with the equipment we have, rather than the things which we would do if the plant could be re-built. 7 pts. in iv. 1915-16.

Contents: Eight points in coal economy.—Measuring the value of coal.—Matching the coal to the plant.—Putting facts behind your choice of coals.—The use and abuse of coal specifications.—The dangers of half-truth in the power plant.—Cutting costs in the R. & H. boiler room.

Gould, Gerald Blenkiron, & Hubbard, C. W.

662.621 G73

Cost of power, a big business problem; a manual of valuable information for business executives. 1914. Fuel Engineering Co. of N. Y.

High-grade trade publication discussing principles of selection, purchase and use of coal. Much practical information.

Somermeier, Edward Elsworth.

662.621 S69

Coal; its composition, analysis, utilization and valuation. 1912. McGraw.

Contents: Composition and heating value.—Chemical analysis of coal.—Sampling.—Methods of analysis.—Determining the calorific value.—Summary of chemical determinations or records.—Improvement of coal by washing.—Purchase of coal under specifications.—Flue gas analysis.—Analytical tables.

United States—Equipment bureau.

qr 662.621 U25

Reports of the efficiency of various coals, 1896-98, expenses of equipment abroad, 1902-03 and recent chemical analyses of coal at navy-yard, Washington, D. C. 1906.

United States—Navy department. r 662.621 U2532

Experimental tests of Matanuska coal for naval ships; letter from the secretary of the navy, transmitting report of the experimental tests of Matanuska (Alaska) coal for the use of the ships of the United States navy. 1915. (64th cong. 1st sess. Senate. Doc. no.26.)

United States—Quartermaster corps. r 662.621 U253

Report on fuel tests and the issue of fuel, 1914. 1914.

Tests were carried out for the purpose of obtaining more information on the proper amounts of fuel for issue to officers and enlisted men at military posts, stations, etc.

Wagner, Frederick Henry. 662.621 W13

Coal and coke. 1916. McGraw.

"References," p.417-418.

Most valuable part of the book is that on coking practice, though the subject is treated from the standpoint of gas manufacture rather than that of production of metallurgical coke. Describes some apparatus now obsolete and some but little developed in America, but is in general a useful book.

Peat**Canada—Mines branch. (Department of mines.)** qr 622.05 C1672

Investigation of the peat bogs and peat industry of Canada during the season, 1910/11-1911/12, 1913/14. 1912-15. (In its Bulletin no. 8-9, 11.)

For volumes for 1908/09-1909/10 see preceding catalogue, v.6.

Canada—Mines branch. (Department of mines.) qr 662.641 Cr6

Report on the utilization of peat fuel for the production of power; being a record of experiments conducted at the Fuel testing station, Ottawa, 1910-11, by B. F. Haanel. 1912.

Hoering, Paul. r 662.641 H67

Moornutzung und torfverwertung, mit besonderer berücksichtigung der trockendestillation. 1915.

Contains bibliographical foot-notes.

Comprehensive work on the utilization of peat bogs for fuel and other peat products, and for agricultural purposes.

Canada—Mines branch. (Department of mines.) r 662.642 Cr6

Results of the investigation of six lignite samples obtained from the province of Alberta, by B. F. Haanel and John Blizard. 1915.

Coke**Lewes, Vivian Byam.** 662.7 L67

Carbonisation of coal; a scientific review of the formation, composition and destructive distillation of coal for gas, coke and by-products. 1912. Allan.

Based on Cantor lectures before the Royal Society of Arts. Appeared in "Journal of the Royal Society of Arts," v.60, Dec. 22, 1911-Jan. 12, 1912.

Author favors low-temperature carbonization for gasworks, with partially carbonized coal as resultant product.

"Few writers on technical subjects afford more agreeable reading than Professor Lewes, and this volume supports his long-established reputation in this respect." *Engineer*, 1913.

Meissner, Carl A.

r 6536

The modern by-product coke oven; a practical method of conserving our coal supply; a paper read at the fourth general meeting of the American Iron and Steel Institute in New York on May 23, 1913. 1913. (United States. 63d cong. 1st sess. Senate. Doc. no.145, v.21.)

Say, Adrien.

qr 662.7 S27

La fabrication du coke et les sous-produits de la distillation de la houille. 1912.

Not a complete treatise, but gives considerable detailed, practical information on equipment and operation, and on keeping of records.

Liquid fuel

Best, William Newton.

r 662.75 B46

Science of burning liquid fuel; a practical book for practical men. 1913. [Beaver Printing Co.]

Practical rather than scientific. Describes many types of furnace and methods of operation.

Booth, William Henry.

662.75 B63l

Liquid fuel and its apparatus. 1911. Constable.

"Object is to present in a handy form the more immediate practical points of the author's larger work on the same subject ['Liquid fuel and its combustion']." *Preface.*

Detailed information, both theoretical and practical. Deals with origin, composition, properties and production of petroleum; treats fully of the practical application of oil fuel to steam raising, and briefly of internal combustion engines.

Butler, Edward.

662.75 B97

Oil fuel; its supply, composition and application. Ed.3, enl. 1914. Griffin.

A large portion of this work is taken from "Oil fuel," by S. H. North (r 662.75 N45).

"An exhaustively and systematically classified record of the developments and progress made in the application of oil fuel for all steam-raising, metallurgical, and other purposes—except internal combustion engines—for which liquid fuel can be usefully employed." *Preface.*

Dunn, Fred Bernard.

662.75 D92

Industrial uses of fuel oil. 1916. Technical Pub. Co.

Practical work, with brief attention to properties of fuel oil and considerable discussion of applications.

Strohm, Rufus Tracy.

662.75 S92

Oil fuel for steam boilers. 1914. McGraw. (Power handbooks.)

Confined to the burning of oil in the furnaces of stationary steam-boilers.

Texas Company.

r 662.75 T32

Oil fuel. 1912.

Published for trade purposes. Presents advantages of oil fuel and outlines the field for its use, describing numerous applications.

Gaseous fuel

Cincinnati, Manufacturers Club.

r 662.761 C48

Smoke prevention and fuel gas; considered by the Manufacturers Club of Cincinnati, May 9 and June 13, 1896.

Briquettes

Franquoy, Joseph. r 662.8 F88

Die fabrikation der künstlichen brennstoffe, insbesondere der gepressten kohlenziegel oder briquettes; uebertragen und bearbeitet von Theodor Oppler. 1864.

Babcock, Earle Jay. r 662.82 B11

Investigations of lignite coal relative to the production of gas and briquets. [1911.]

Being a preliminary report of the School of mines and experimental station of the University of North Dakota.

Pamphlet. An industrial and technical study.

Central heating plants. Surface combustion

Bushnell, S. Morgan, & Orr, F. B. 662.9 B96

District heating; a brief exposition of the development of district heating and its position among public utilities. 1915. Heating and Ventilating Magazine Co.

Gifford, Byron Towne. 662.9 G37

Central station heating. 1912. Heating and Ventilating Magazine Co.

Summarizes modern practice in district heating by steam and hot water. Gives useful information on engineering, economic and business problems. First book on the subject in English.

Lucke, Charles Edward. r 662.95 L97

Design of surface combustion appliances; written for the eighth annual meeting of the American Gas Institute, Oct. 1913. 1913. Amer. Gas Institute.

"The process of development that has resulted in the establishment of surface combustion on an engineering basis whereby apparatus can now be designed to meet specific conditions is reported briefly in this paper." Page [1].

663 Beverages

Mohr, Otto August. r 663.1 M77

Physik und chemie der gärungsgewerbe; ein hilfsbuch für studierende und praktiker der gärungsgewerbe. 2v. 1909-12.

v.1. Physik.

v.2. Chemie.

Oppenheimer, Carl. r 663.1 O26

Die fermente und ihre wirkungen. Ed.4, rev. 2v. 1913.

v.2 contains chapter "Physikalische chemie der fermente und fermentwirkungen," by R. O. Herzog.

Bibliographical foot-notes; "Bibliographie," v.2, p.1039-1138.

Scholarly work, using the term ferment in a wide sense and dealing fully with recent research.

Bayliss, William Maddock. 663.11 B33

Nature of enzyme action. Ed.2. 1911. Longmans. (Monographs on biochemistry.)

"List of literature referred to," p.121-132.

Tentatively defines enzymes as "the catalysts produced by living organisms," and discusses mainly general types of reaction, referring to specific enzymes only by way of illustration.

Cohnheim, Otto.

663.11 C66

Enzymes; six lectures delivered under the Herter lectureship foundation at the University and Bellevue hospital medical college. 1912. Wiley.

Lectures before physicians and medical students, treating subject from biological point of view.

Merz, J. L.

r 663.258 M63

Fehler und krankheiten des weines; deren ursachen, erkennung, vorbeugung und heilung auf grund langjähriger erfahrungen und der neuesten ergebnisse der wissenschaftlichen forschung. 1914. (Hartleben's chemisch-technische bibliothek.)

"Literatur," p.87-90.

Institute of Brewing.

r 663.4 I24

Collective index of the Journal of the Institute of Brewing, including the Transactions of the Laboratory Club, 1887-90, of the Institute of Brewing, 1890-94, of the North of England Institute of Technical Brewing, 1891-94, of the Yorkshire Institute of Brewing, 1893-94, and of the Midland Counties Institute of Brewing, 1894, together with the Journal of the Federated Institutes of Brewing, 1895-1903 (v.1-9) and the Journal of the Institute of Brewing, 1904-10 (v.10-16, v.1-7 new series), 1887-1910. 1911. Harrison.

qr 663.405 W83

Wochenschrift für brauerei; eigentum des Vereins Versuchs- und Lehranstalt für Brauerei in Berlin [weekly], 1914-date. 31. jahrgang-date.

United States—Internal revenue office.

r 663.5 U25

Bulletin relative to production of distilled spirits; pub. by the Bureau of internal revenue for the information of its officers. 1912.

Whympers, R.

663.91 W66

Cocoa and chocolate; their chemistry and manufacture. 1912. Churchill.

"Bibliography," p.315-316.

The botany and agriculture of cacao, and the manufacture and chemistry of chocolate, cocoa powders and other cacao products are treated clearly and authoritatively.

"Timely and valuable contribution to the literature of an important topic." *Science*, 1912.

Franke, Erwin.

r 663.913 F87

Kakao, tee und gewürze. 1914. (Hartleben's chemisch-technische bibliothek.)

664 Foods. Preserving

For Food adulteration, see 614.3; for Food analysis, see 543.1

Vulté, Hermann Theodore, & Vanderbilt, S. B.

664 V39

Food industries; an elementary text-book on the production and manufacture of staple foods, designed for use in high schools and colleges. 1914. Chemical Pub. Co.

"Bibliography," p.288-294.

Describes processes of manufacturing various foods and beverages. The chemistry of certain processes is considered briefly.

Ward, Artemas, comp.

qr 664 W21

Grocer's encyclopedia; a compendium of useful information concerning foods of all kinds, how they are raised, prepared and marketed, how to care for them in the store and home, how best to use and enjoy them and other valuable information for grocers and general storekeepers. 1911. [Kempster.]

Useful reference work. Illustrations numerous and of good quality.

Sugar. Spices

Browne, Charles Albert.

664.1 B79

Handbook of sugar analysis; a practical and descriptive treatise for use in research, technical and control laboratories. 1912. Wiley.

"Bibliography," p.7-9.

Very comprehensive and thorough.

"It is a classic of its kind that will always occupy a preëminent place in sugar literature." *Journal of industrial and engineering chemistry*, 1913.

Schulz, C. G.

r 664.1 S38

Die fabrikation des zuckers aus rüben; theorie und praxis für praktiker. v.1-6, in 1. 1862-65.

Martineau, George.

664.11 M43

Sugar, cane and beet; an object lesson. [1910.] Pitman. (Pitman's common commodities of commerce.)

Popular manual of the sugar industry. Interesting and instructive.

Koppeschaar, Edward.

qr 664.114 K38

Evaporation in the cane and the beet sugar factory; a theoretical and practical treatise. 1914. Rodger.

Discusses fundamental laws of evaporation and gives considerable attention to their economic application.

Jank, Joseph K.

r 664.5 J17

Spices; their botanical origin, their chemical composition, their commercial use; Seeds, herbs, leaves, etc., their botanical origin, their commercial use; Miscellaneous, technical advices and tables. 1915. Privately printed.

Of interest to the spice, drug and grocery trades, and to chemists and food inspectors.

Baking. Ice cream. Ices

Grant, James, F. C. S.

664.6 G78

Chemistry of breadmaking. 1912. Longmans.

"Bibliography," p.217-218.

Deals in an elementary way with heat and physical calculations as applied to bakery problems; composition and analysis of cereals, fermentation, fuels, ovens, technology of breadmaking and hygiene of the bakery.

Jago, William, & Jago, W. C.

664.6 J14

Technology of bread-making, including the chemistry and analytical and practical testing of wheat, flour and other materials employed in bread-making and confectionery. 1911. Simpkin.

Comprehensive. Treats in detail the chemistry of wheat, flour and confectioners' raw materials; discusses the manufacture and action of yeasts, and the design, equipment and operation of bakeries. Part dealing with analytical methods is less satisfactory than that dealing with technology of the subject.

Tscheinig, Matthias. r 664.6 T78
 Die Wiener und österreichische bäckerei. 1913. (Hartleben's chemisch-technische bibliothek.)

Gives practical information and descriptions of processes and operations in Austrian bakeries, considering raw materials, the baking of different products, and oven control.

Frandsen, Julius Herman, & Markham, E. A. 664.6843 F87

Manufacture of ice creams and ices. 1916. Judd.

"Material gathered during several years of teaching and of actual commercial experience." *Preface.*

Relates chiefly to commercial manufacture, and gives some consideration to factory management and operation.

Flour

Amos, Percy A. 664.7 A52

Processes of flour manufacture. 1912. Longmans. (Longmans' technical handicraft series.)

Small but comprehensive work on the materials and technical processes of flour milling.

Kick, Friedrich qr 664.7 K24

Flour manufacture; a treatise on milling science and practice; tr. from the second enlarged and revised edition by H. H. P. Powles. 1888. Lockwood.

With this is bound his "Recent progress in flour manufacture."

Washburn-Crosby Co. Minneapolis. 664.7 W27

Wheat and flour primer.

Brief explanation of modern processes of flour manufacture, with a few rules for baking.

Preserving

Pardeller, Josef. r 664.8 P22

Die beerenfrüchte Deutschlands und Österreichs; ihre verarbeitung und verwertung in der hauswirtschaft, technik und heilkunde. 1913. (Hartleben's chemisch-technische bibliothek.)

"Literaturverzeichnis," p.255.

Treats of botany, cultivation and utilization of berries and other small fruits.

Ams (Max) Machine Company. r 664.811 A52

The seal of safety; year book of the Max Ams Machine Co., 1914.

"Associations in the canning and packing industries," p.57-82.

"Legal matters of interest to the canners," p.83-117.

Gives much information regarding canning industry and methods of canning.

Bitting, Arvill Wayne, & Bitting, Mrs K. G. 664.811 B49

Canning and how to use canned foods. 1916. National Canners Assoc.

Describes briefly the methods of commercial and home canning. Argues that "the most serious error in the use of canned foods has been to consider the food ready to serve, or needing only to be heated," and states that canned products "should be considered stock upon which to base culinary operations rather than as foods that are complete and ready for use." Gives many receipts.

Zavalla, Justo P. 664.811 Z35

Canning of fruits and vegetables; based on the methods in use in California, with notes on the control of the microorganisms effecting spoilage. 1916. Wiley.

Contents: Fruit canning.—Vegetable canning.—Microorganism and spoilage.—The making of sanitary cans.—Appendix: Pure foods act.

Nanot, Jules, & Gatin, C. L.

r 664.852 N12

Traité pratique du séchage des fruits et des légumes. Ed.2, rev. 1913. (Bibliothèque agricole.)

Petermann, E.

r 664.9 P45

Die fleisch-, schinken- und wurst-konservenfabrikation. 1914. (Hartleben's chemisch-technische bibliothek.)

Henschien, Hans Peter.

664.944 H45

Packing house and cold storage construction; a general reference work on the planning, construction and equipment of modern American meat packing plants, with special reference to the requirements of the United States government and a complete treatise on the design of cold storage plants, including refrigeration, insulation and cost data. 1915. Nickerson.

Author is an architect and engineer with extended experience in this field. Book contains many detailed drawings.

665 Oils. Gases

Cameron, James, of England, ed.

r 665 C15

Oils and varnishes. 1886. Churchill.

"Bibliography," pref. p.6.

Dieterichs, Ernst Emil Franz.

665 D57

Practical treatise on friction, lubrication, fats and oils, including the manufacture of lubricating oils, leather oils, paint oils, solid lubricants and greases, together with numerous formulas, modes of testing oils and the application of lubricants. Ed.2, rev. & enl. 1916. Baird.

Non-technical work. Considerable attention to products developed by the author.

Holde, David.

665 H71

Examination of hydrocarbon oils and of saponifiable fats and waxes; authorized translation from the fourth German edition by Edward Mueller. 1915. Wiley.

"References," p.13-15.

Valuable work on the chemistry and analysis of mineral and some animal and vegetable oils.

Marcusson, J.

r 665 M37

Laboratoriumsbuch für die industrie der öle und fette. 1911. (Laboratoriumsbücher für die chemische und verwandte industrien.)

Deals with properties of fats and oils, chemical and physical tests, and some of the technical products, such as candles, soaps, varnishes and lubricants.

Southcombe, James Edward.

665 S72

Chemistry of the oil industries. 1913. Constable. (Outlines of industrial chemistry.)

Bibliography, p.8-9.

Concerned with mineral oils and animal and vegetable fats and oils, with brief treatment of the candle and soap industries. Composition, properties and analytical methods are considered.

Ellis, Carleton.

665.22653 E53

Hydrogenation of oils; catalyzers and catalysis and the generation of hydrogen. 1914. Van Nostrand.

Full and up-to-date treatment of one of the most important recent developments in oil technology. Attempts to summarize the literature and present all the more or less conflicting opinions on the subject. Gives many references. Considerable attention to saponification and to edible oils.

Fritsch, J.

r 665.3 F95

Fabrication et raffinage des huiles végétales; manuel à l'usage des fabricants, raffineurs, courtiers et négociants en huiles. Ed.2, rev. 1914.

"Ouvrages consultés," p.2.

Extensive work, considering technology in general and dealing separately with numerous oils. Has section on analysis.

Bituminous materials

Danby, Arthur.

665.4 D19

Natural rock asphalts and bitumens; their geology, history, properties and industrial application. 1913. Constable.

British, but gives considerable attention to American deposits. Considers sources, properties, applications and modern exploitation.

Delehay, Henri.

r 665.4 D39

Huiles minérales; pétroles, benzols, brais, paraffines, vaselines, ozokérite. 1911.

Brief discussion of composition, technology and testing.

Jeep, W.

r 665.4 J22

Der asphalt und seine anwendung in der technik. 1867.

Scheithauer, W.

665.44 S37

Shale oils and tars and their products; tr. from the German by Chas. Salter. 1913. Scott.

Contents: History of the shale and lignite-tar industry.—The bituminous raw materials.—The production of distillation tar.—The distillation products.—The distillation of the tar and tar oils.—Chemical treatment of the tar and its distillates.—The utilization of the refinery waste.—The manufacture of paraffin.—Products furnished by shale oil and lignite tar.—Candlemaking.—Chemical composition of the tars and their distillates.—The laboratory work.—Statistics.

Affords a fuller treatment than is found in standard reference works on industrial chemistry. Discusses raw materials, distillation processes and commercial products. Chapters on oil testing and candle-making.

Petroleum

For Production, see 622.338; for Geology, see 553.28

Bacon, Raymond Foss, & Hamor, W. A.

665.5 B13

American petroleum industry, with special chapters by F. G. Clapp, R. H. Johnson, J. P. Cappeau and L. G. Huntley. 2v. 1916. McGraw.

The same.....r 665.5 B13

Comprehensive work. Geology is considered briefly but authoritatively. The section on refinery technology is of special merit and affords a fuller treatment than is available elsewhere. Value is enhanced by numerous references to other literature.

Curtis, Gardner & Co. London.

qr 665.5 C93

The coming of petroleum. [1911?]

Popular illustrated account of the occurrence and development of petroleum, leading up to modern industrial applications, many of which are described.

Engler, Karl Oswald Viktor, & Höfer, Hans, ed. qr 665.5 E64
Das Erdöl; seine Physik, Chemie, Geologie, Technologie und sein Wirtschaftsbetrieb. v.4. 1916.

v.4. Die Prüfung und Verwendung des Erdöls, des Erdgases und Erdölprodukte; redigiert von C. Engler.

For v.1-3 see preceding catalogue, v.6.

Kissling, Richard. 665.5 K29

Das Erdöl; seine Verarbeitung und Verwendung; eine gedrängte Schilderung des Gesamtgebietes der Erdöl-Industrie. 1908. (Monographien über chemisch-technische Fabrikationsmethoden, v.12.)

Excellent treatment, in relatively small space, of the origin, distribution and refining of crude oil and of the utilization of petroleum and its derivatives.

Redwood, Sir Boverton. 665.5 R27a2

Petroleum. Ed.3, rev. & enl. 3v. 1913. Griffin.

v.1. Historical account of the petroleum industry.—The geological and geographical distribution of petroleum and natural gas.—The physical and chemical properties of petroleum and natural gas.—The origin of petroleum and natural gas.—The production of petroleum, natural gas and ozokerite.

v.2. The refining of petroleum.—The shale-oil and allied industries.—The transport, storage and distribution of petroleum.—The testing of crude petroleum, petroleum and shale-oil products, ozokerite and asphalt.—The uses of petroleum and its products.

v.3. Statutory, municipal and other regulations relating to the testing, storage, transport and use of petroleum and its products.—Statistics.—Marine transport of petroleum.—Import duties levied on United States petroleum.—Thames conservancy.

"Bibliography," v.3, p.187-349.

Redwood, Sir Boverton, & Eastlake, A. W. r 665.5 R27p

Petroleum technologist's pocket-book. 1915. Griffin.

Condensed, authoritative information on geology, exploitation, refining and properties of mineral oils.

Thomson, Jocelyn Home, & Redwood, Sir Boverton. r 665.5 T38

Handbook on petroleum; for inspectors under the petroleum acts and for those engaged in the storage, transport, distribution and industrial use of petroleum and its products and calcium carbide, with suggestions on the construction and use of mineral oil lamps; revised and added to by A. Cooper-Key and Sir Boverton Redwood. Ed.3, rev. 1913. Griffin.

Tinkler, Charles Kenneth, & Challenger, Frederick. 665.5 T48

Chemistry of petroleum and its substitutes; a practical handbook, with an introduction by Sir Boverton Redwood. 1915. Lockwood.

Reasonably comprehensive text-book on the chemistry and technology of petroleum products. Considers also coal distillation, benzol and its derivatives, and alcohol.

Bryan, George. r 665.5007 B84

Law of petroleum and natural gas, with forms. 1898. Bisel.

Donahue, Daniel Douglas. r 665.5007 D71

Treatise on petroleum and natural and manufactured gases. 1902. Pantagraph Printing and Stationery Co.

Contents: General principles.—Petroleum and gas as personal property.—Partnership in the production of petroleum and gas.—Life tenants and tenants in dower.—Tenants in common.—Limitation laws and adverse possession.—Fixtures.—Taxation.—

Donahue, Daniel Douglas—*continued*.

r 665.5007 D71

The use of streets and highways.—Liens.—Right to acquire land for pipe lines, power of eminent domain.—Execution of oil and gas leases.—Oil and gas leases.—Rents and royalties.—Reservations and location of oil claims.—Rates and supply of gas.—Damages caused by gas.—Negligence affecting the right to recover for injuries.—Injuries caused by petroleum and its products.—Transportation of oil.—Nuisances.—Use of oil and gas affecting insurance.

Periodicals

qr 665.505 O19

Oil and gas journal; the oil investors' journal [weekly], June 15, 1911—date. v.10—date. 1911—date.

qr 665.505 F97

Oil trade journal; monthly, Oct. 1911—date. v.1—date. 1911—date.
v.1—v.7, no.10, Oct. 1911—Oct. 1916, title reads "Fuel oil journal."

qr 665.505 O22

Oklahoma oil and gas news [weekly], Aug. 27, 1914—Oct. 28, 1915. v.1, no.17—v.2, no.23. 1914—15.

Many numbers wanting.

qr 665.505 P46

Petroleum; zeitschrift für die gesamten interessen der petroleum-industrie und des petroleum-handels [semimonthly], Oct. 1911—date. v.7—date. 1911—date.

qr 665.505 P465

Petroleum review [bi-weekly and weekly], 1912—date. v.26—date. 1912—date.

v.27—29, July 1912—13, many numbers wanting.

Gasoline

Rittman, Walter Frank, and others.

665.54 R51

Manufacture of gasoline and benzene-toluene from petroleum and other hydrocarbons. 1916. (United States—Mines bureau. Bulletin no.114.)

"Bibliography;" comp. by M. S. Howard, p.215—260.

The same. (In United States—Mines bureau. Bulletin no.114.).....**r 622.009 U25 no.114**

United States—Interior department.

r 665.54 U25

Gasoline; information in response to a Senate resolution of Jan. 5, 1916, relative to the production, consumption and price of gasoline. 1916. (64th cong. 1st sess. Senate. Doc. no.310.)

Gas

Baltimore gas and electric news

r 665.7 B21

American gas centenary, 1816—1916; Consolidated Gas Electric Light and Power Company of Baltimore. 1916.

Being centennial number of the "Baltimore gas and electric news," v.5, no.6, June 1916.

Biège, Henri.

r 665.7 B47

L'industrie du gaz d'éclairage. 1914. (Encyclopédie industrielle.)

Manufacture, distribution and measurement of gas. Includes also central heating by means of coke or gas, and methods of industrial and domestic heating in general.

r 665.7 B82

Brown's directory of American gas companies; gas statistics, 1913. 1913.

For earlier volumes see preceding catalogue, v.1, 4, 6.

Geitmann, Hans.

r 665.7 G28

Die wirtschaftliche bedeutung der deutschen gaswerke. 1910.

Discusses operation of German gas works, including manufacture, distribution and uses of gas, and giving considerable attention to administrative problems.

r 665.7 L49

Lectures delivered at the centenary celebration of the first commercial gas company to sell gas as an illuminant, held at the Franklin Institute, Philadelphia, Pa., April 18-19, 1912; ed. and published by the American Gas Institute. [1912.]

Contents: By-products in gas manufacture, by C. E. Munroe.—Commercial and financial aspects of the gas industry, by G. B. Cortelyou.—The technique of gas manufacture, by A. E. Forstall.—Gas as an illuminant, by Van Rensselaer Lansingh.—The use of gas for heat and power; the testing of gas, by E. B. Rosa.

Delivered under the auspices of the American Philosophical Society, the Franklin Institute, the American Chemical Society and the American Gas Institute.

National Commercial Gas Association, pub.

q 665.7 N15

Gas equipment of the home. Ed.3. 1914.

Trade literature dealing briefly with gas-piping for domestic purposes, and use of gas for heating, lighting, laundry work and other purposes.

Royle, Harold M.

665.7 R81

Chemistry of gas manufacture; a practical manual for the use of gas engineers, gas managers and students. 1908. Henley.

Concerned mainly with coal gas for illuminating purposes. Does not deal with manufacturing processes, but considers only testing of materials and products and regulation of furnaces.

American Gas Institute.

r 665.705 A5122

Proceedings, annual meeting; index, v.1-10, 1906-15.

For volumes of proceedings see preceding catalogue, v.6.

qr 665.705 G21

Gas age [semimonthly], 1912-date. v.30-date. 1912-date.

Prior to v.31, 1913, title read "Progressive age."

qr 665.705 G212

Gas engineer's magazine and gas industries [monthly], 1912-date. v.28-date. 1912-date.

v.28, no.429-434, Jan.-June 1912, title reads "Gas engineer's magazine."

Institution of Gas Engineers.

r 665.705 I247

Transactions; index, v.1-13, 1903-15. (In v.13)

The Institution of Gas Engineers, incorporated Nov. 29, 1902, was formed by the consolidation of the Incorporated Institution of Gas Engineers and the Incorporated Gas Institute.

For volumes of transactions see preceding catalogue, v.4.

Brooke, T.

665.73 B77

Modern retort settings; their construction & working. 1912. Allan.

Thoroughly practical in treatment. Intended especially for guidance of managers of small gas-works in control of recuperative settings.

Lange, Kurt Reinhold.

665.78 L24

By-products of coal-gas manufacture; tr. from the German by Charles Salter. 1915. Scott.

Deals briefly with the process of distillation, the purification of coal gas and the recovery of the more important by-products.

Wagner, Frederick Henry.

665.78 W13

Coal gas residuals. 1914. McGraw.

Largely a "write-up" of Feld process, which to date (1914) has had little commercial application in America.

Acetylene

Pellissier, Georges.

r 665.8 P38

L'éclairage à l'acétylène: historique, fabrication, appareils, applications, dangers. 1897.

Considers acetylene only in its application to lighting, but deals fully with that subject. Well illustrated.

Autogenous welding

665.882 A93

Autogenous welding. 1914. Industrial Press. (Machinery's reference series, no.125.)

Contents: Oxy-acetylene and oxy-hydrogen process of metal cutting and autogenous welding.—Pre-heating metals to be welded by the oxy-acetylene process, by J. F. Springer.—Oxy-acetylene welding of tanks and retorts, by J. F. Springer.—Autogenous welding as a means of repairing cylinders, by Henry Cave.—Manufacture of tubing by autogenous welding, by J. F. Springer.

Granjon, R. & Rosemberg, P.

665.882 G78

Practical manual of autogenous welding (oxy-acetylene), with a chapter on the cutting of metals with the blowpipe; tr. by D. Richardson. 1913. Griffin. (Griffin's technological hand-books.)

Briefly outlines various methods of welding and discusses quite fully the principles, equipment and practical methods of autogenous welding of metals and alloys under various conditions.

Hart, Richard Newell.

665.882 H31a

Welding; theory, practice, apparatus and tests, electric, thermit and hot-flame processes. Ed.2, rev. & enl. 1914. McGraw.

Useful book on a subject of rapidly increasing commercial importance. Some of the processes discussed are still in the experimental stage and the data inconclusive. Largely a compilation, but well selected and arranged.

Keppelmann, D. Ellwood.

r 665.882 K19

Welding in gas distribution; paper read before 22d annual convention, Pacific Coast Gas Association, Long Beach, Cal., Sept. 15-18, 1914. [1914.]

Describes procedure in welding high-pressure gas-mains by the oxy-acetylene process.

Manly, Harold Phillips.

665.882 M33

Oxy-acetylene welding and cutting; electric, forge and thermit welding, together with related methods and materials used in metal working and the oxygen process for removal of carbon. 1916. Drake.

Practical manual, including brief consideration of the heat treatment of steel.

New York (city)—Public library. Astor, Lenox and Tilden foundations.

qr 016.665882 N26

List of works in the library relating to oxy-acetylene welding. 1914.

The same. 1914. (In its Bulletin, 1914, v.18, p.1049-1978.).....qr 017.1 N2611 v.18

Paris, Union de la Soudure Autogène. r 665.882 P23

Sept conférences sur la soudure autogène faites dans le laboratoire de l'association, 1910.

Eight short papers devoted to autogenous welding of various metals, the blowpipes used and the cutting of iron and steel by the gas flame.

Springer, John F. 665.882 S76

Oxy-acetylene torch practice; a book for the men who use the oxy-acetylene welding and cutting torches. [1912.] Richardson Press.

Prepared with the coöperation of the Davis-Bournonville Company, New York.

Almost wholly devoted to short descriptions of apparatus and practical methods of operation.

Vulcan Process Co. Minneapolis, Minn. r 665.882 V39

Instructions on welding and cutting of metals, oxyacetylene process. 1914.

Trade literature.

Vulcan Process Co. Minneapolis, Minn. r 665.882 V39t

Text book on welding and cutting metals by the oxyacetylene process [with a preface] by C. H. Burrows. Ed.3, rev. 1915.

Trade literature, giving clear and practical instruction.

Gas distribution

Woodall, Henry, & Parkinson, B. R. r 665.92 W85

Distribution by steel, with a chapter on main testing for leakage. 1911. Allan.

Deals mainly with gas distribution by means of steel mains and service-pipes. Special attention to pipe-joints.

666 Ceramics. Glass

Bibliography

Branner, John Casper, comp. r 016.666 B71

Bibliography of clays and the ceramic arts. 1906. Amer. Ceramic Soc.

The same. 1896. (In United States—Geological survey. Bulletin, v.25, no.143.).....r 557.3 U25b v.25

First edition contains 2,961 titles. Edition of 1906 contains 6,027 titles, arranged alphabetically by names of authors. No subject index.

General works

Bollenbach, Hermann. r 666 B61

Keramische rechen tafeln zum gebrauch in den laboratorien der ton-, glas- und email-industrie. 1912.

Illinois University—Department of ceramics. r 666 I22

Bulletin. no.16-23. 1912-14.

For no.1-2, 6-15 see preceding catalogue, v.6.

Mellor, Joseph William.

666 M59

Treatise on the ceramic industries. v.1. 1913. Griffin.

v.1. A treatise on quantitative inorganic analysis, with special reference to the analysis of clays, silicates and related minerals.

Bibliography, v.1, p.732-736.

v.1 does not deal with ceramic chemistry and calculations, but with composition and methods of analysis of the various materials used in pottery. Author is (1913) editor of the Transactions of the English Ceramic Society.

Pukall, Wilhelm.

r 666 P98

Keramisches rechnen auf chemischer grundlage an beispielen erläutert; leitfaden für den unterricht in keramischen fachschulen und zum selbstunterricht. Ed.2, enl. 1912.

Extensively used in Germany as a guide to ceramic chemistry and calculations.

Searle, Alfred Broadhead.

666 S43

Cement, concrete and bricks. 1913. Constable. (Outlines of industrial chemistry.)

Considers the three materials closely related, and discusses the raw materials, manufacture, properties and testing of each.

Glass

Coffignal, Louis.

r 666.1 C66

Verres et émaux. 1900. (Encyclopédie industrielle.)

Brief general study of glass and enamels, considering physical and chemical properties, industrial furnaces, methods of working, etc.

Dralle, Robert, ed.

qr 666.1 D78

Die glasfabrikation. 2v. 1911.

Contains bibliographies.

Most comprehensive work in print (1912). Gives detailed plans for glass works of various kinds and discusses furnaces, fuels, refractory substances, raw materials, processes and finished products.

Frary, Francis Cowles.

666.1 F88

Laboratory manual of glass-blowing. 1914. McGraw.

Detailed description of tested methods.

Halík, Johann.

r 666.1 H16

Handbuch der glasfabrikation. v.1. 1908.

v.1 deals with chemistry of raw materials and with mixes for various kinds of glass.

National glass budget, comp.

r 666.1 N15g

Glass factory directory. 1915. Pittsburgh.

r 666.1 R26

Recipes for flint glass making, by a British glass master and mixer; leaves from the mixing book of several experts in the flint glass trade. Ed.2. 1907. Scott.

For colorless and colored glass.

qr 666.105 D53

Diamant; glas-industrie-zeitung [trimonthly], 1913-date. v.35-date. 1913-date.

r 666.105 S768

Sprechsaal-kalender für die keramischen, glas- und verwandten industrien; hrsg. von J. Koerner, 1912-date. 4. jahrgang-date. 1911-date.

- Schnurpfeil, Hans.** r 666.13 S36
 Die glasschmelzöfen und ihre feuerungsanlagen. 1911.
 "Fachliteratur," app. p.26-40.
 Brief treatment. Types of furnaces are illustrated, but sketches are too small to be fully satisfactory.

Enamel

- Brown, William Norman.** 666.2 B79
 Art of enamelling on metal. Ed.2, rev. 1914. Scott.
 Explains simply and clearly the varieties of art enamel, the processes used in their production, and the apparatus, colors and tools required.
- Brown, William Norman.** 666.2 B79h
 Handbook on japanning for ironware, tinware, wood, etc., with sections on tinplating and galvanizing. Ed.2, rev. & enl. 1913. Scott.
 Methods adapted for use in repair shops and for work on a small scale.
- Eyer, Philipp.** r 666.2 Egge
 Emaillewissenschaft in gemeinverständlicher auslegung. 1912.
 Practical and informative book on raw materials for enamels, coloring materials, preliminary pickling operations, calculations, and application of enamels.
- Franchet, Louis.** r 666.2 F86
 La fabrication industrielle des émaux et couleurs céramiques. 1911
- Grünwald, Julius.** 666.2 G94r
 Raw materials for the enamel industry and their chemical technology; a treatise for manufacturers, chemists and enamel technologists; tr. by H. H. Hodgson. 1914. Griffin.
 Deals with occurrence and properties of the more important raw materials, and briefly with the technology of their preparation. Written mainly from author's own experience and is a valuable contribution to the meager literature of enameling.
- Grünwald, Julius.** 666.2 G94t
 Technology of iron enamelling & tinning; being collected papers tr. from the German by H. H. Hodgson. 1912. Griffin.
 Contains valuable papers which formerly appeared in various German technical periodicals. Information is based on results of author's own researches.
- Walter, Paul.** r 666.22 W19
 Die beleuchtungsglashütte; bau, einrichtung und betrieb. 1907.
 Appeared originally in "Sprechsaal."

Pottery

- Staffordshire, County Pottery Laboratory.** 666.3 S77
 Collected papers from the County Pottery Laboratory, Staffordshire, by several authors; ed. by J. W. Mellor. v.1. 1914. Griffin.
 v.1. Clay and pottery industries.
 "This volume...is the first-fruits of the Stoke-on-Trent Pottery School...It contains the most important papers...written since 1900 by members of the teaching staff and past and present members of the pottery classes." *Introduction to v.1.*
- Stephenson, Henry Holder.** 666.3 S83
 Ceramic chemistry. 1912. Davis.
Contents: Geological origins.—Clay.—Clay analysis.—Raw materials.—Bodies.—Glazes.—Enamels.—The production of colour.—Firing of the ware.—Loss in manufacture.—Industrial disease.—Testing of finished ware.—Classification of pottery.—Research.
 "Bibliography in English," p.85.

Wilkens, Karl.

qr 666.3 W72

Die keramischen thonfabrikate; vollständig neu bearbeitet von Wilhelm Schumacher, mit einem atlas. Ed.5, rewritten. 2v. 1884-94.

v.1. Allgemeine keramik.—Die thonfabrikate mit einfachem scherben.

v.2. Atlas.

Being a later edition of his "Die töpferi."

Deals with many kinds of industrial and art ware.

qr 666.305 B74

Brick and pottery trades journal; a commercial and independent organ for the clayworking industries [monthly], 1914-date. v.22-date. 1914-date.

Spangenberg, Albert.

qr 666.33 S73

Zur erkenntnis des tongiessens. [1910?]

Von der Grossherzoglichen Technischen Hochschule Darmstadt genehmigte dissertation zur erlangung der würde eines doktor-ingenieurs.

Lovejoy, Ellis.

r 666.34 L94

Scumming and efflorescence. 1907. Richardson-Lovejoy Engineering Co.

Discusses causes and remedies of these phenomena in brickmaking. Proposes a classification based on the stage of manufacture in which the trouble appears and also upon the origin of the scum.

Müller, C. G.

r 666.34 M95

Die tonöfenfabrikation; herstellung und bau der kachelöfen. 1915. (Hartleben's chemisch-technische bibliothek.)

Bricks

Bibliography

Carnegie Library of Pittsburgh.

r 016.6667 C21

Brick manufacturing and bricklaying; references to books and magazine articles. 1912. Pittsburgh.

Reprinted from the "Monthly bulletin," Jan. 1912.

General works

Ackworth, A. T.

666.7 A18

Manufacture of roofing tiles. Maclaren. ("Brick & pottery" handbooks.)

Practical book, dealing with raw materials, mechanical and heat treatment, and the drying and storing of tiles.

Ansell, H.

666.7 A61

Manufacture of glazed bricks & glazed sanitary ware. Ed.2, rev. & enl. Montgomery. ("The British clayworker" manuals.)

Considerable attention to chemical composition of clays, stains and glazes. From point of view of British practice.

r 666.7 C55

Claycrafter [bimonthly], March 1910-March 1911. v.1, no.1-6. 1910-11.

House organ of the C. W. Raymond Co. Contains some technical papers of value.

- Heusinger von Waldegg, Edmund.** r 666.7 H49
Die ziegel-, röhren- und kalkbrennerei in ihrem ganzen umfange und nach den neuesten erfahrungen; ein hand- und hülfsbuch; bearbeitet von L. Schmelzer. Ed.5, rev. & enl. v.1. 1901.
v.1. Die ziegel- und röhrenbrennerei.
Deals in detail with materials, plant and operation.
- Hydraulic-press Brick Co. St. Louis.** qr 666.7 H99
Hy-tex; the standard of quality in brick. 1915.
Brief description and colored illustrations of various brands of building brick.
- Lovejoy, Ellis.** 666.7 L94
Economies in brickyard construction and operation. 1913. Randall.
Discusses briefly the various steps in brick making, giving suggestions for systematization and economy.
- National Brick Manufacturers' Association.** r 666.7 N150
Official report, annual convention (26th-30th), 1912-16. 1912-16.
For reports for 1904-11 see preceding catalogue, v.6.
- Weber, R.** r 666.7 W37
Handbuch der ziegeleitechnik, enthaltend moderne hilfsmittel und einrichtungen für ziegeleien. 1914.
Deals rather fully with clay-working, discussing raw materials and their preparation, drying and burning of products, conveying machinery and power-plant.
- Brown, Arthur E.** 666.711 B78
Hand brickmaking; a short treatise on modern practice for small brickyards, with an introductory chapter on the general methods of manufacture. 1902. The Clayworker Press. ("British clayworker" manuals.)
- Brown, Arthur E.** 666.713 B78
Brick drying; a practical treatise on the drying of bricks and similar clay products. 1902. The Clayworker Press. ("The British clayworker" manuals.)
Briefly outlines theory and practice of brick drying. Classifies and describes commercial types of dryers, giving considerable attention to American forms.
- Engineering Standards Committee.** qr 666.73 E64
British standard specification for salt-glazed ware pipes. 1914.
(British standard sections no.65.)
- Havard, Francis Thompson.** 666.76 H35
Refractories and furnaces; properties, preparation and application of materials used in the construction and operation of furnaces. 1912. McGraw.
Gives a brief and rather fragmentary discussion, considering applications in chemical, metallurgical and other industrial processes.
- Schnurpfeil, Hans.** r 666.76 S36
Die tonindustrie im glashüttenbetriebe. 1908.
Discusses application of refractories in glass manufacture.

Cements. Plasters. Mortars

- Butler, David Butler.** 666.9 B97
Portland cement; its manufacture, testing and use. Ed.3, rev. & enl. 1913. Spon.

- Dancaster, Ernest Augustus.** 666.9 D19
Limes & cements; their nature, manufacture and use; an elementary treatise. 1915. Appleton.
"Bibliography," pref. p.11-12.
- Hodgson, Frederick Thomas.** 666.9 H66
Mortars, plasters, stuccos, artificial marbles, concretes, Portland cements and compositions. 1914. Drake.
Compilation dealing with practical methods of construction and decoration.
- Lipowitz, A.** r 666.9 L73
Die Portland-cement-fabrikation nach eigenen praktischen erfahrungen. 1868.
- Lazell, Ellis Warren.** r 666.915 L44
Hydrated lime; history, manufacture and uses in plaster, mortar, concrete, a manual for the architect, engineer, contractor and builder. 1915. Privately printed. [Pittsburgh.]

667 Bleaching. Dyeing

- Dyestuffs;** an informing [monthly] periodical in the interest of the mill management, the dyer and colorist, 1913-date. v.16-date. 1913-date.
Publication suspended Dec. 1915-17. r 667.2 D98
- Hübner, Julius.** 667.2 H87
Bleaching and dyeing of vegetable fibrous materials, with an introduction by Raphael Meldola. 1912. Constable.
"Concise and up-to-date compilation of practical information." *Nature*, 1912.
- Macfarlane, Robert.** r 667.2 M15
Practical treatise on dyeing and calico-printing, including the latest inventions and improvements, also a description of the origin, manufacture, uses and chemical properties of the various animal, vegetable and mineral substances employed in these arts, with an appendix comprising definitions of chemical terms, with tables of weights, measures, thermometers, hydrometers, &c., by an experienced dyer, assisted by several scientific gentlemen, with a supplement containing the most recent discoveries in color chemistry. 1860. Wiley.
- Olney, Louis Atwell.** r 667.2 O23
Textile chemistry and dyeing; a manual of practical instruction in the art of textile bleaching and coloring, and allied processes of treatment, including many useful hints and recipes. 1914. Amer. Technical Soc.
Author is (1914) head of Department of textile chemistry and dyeing, Lowell Textile School, Lowell, Mass.
- Pellew, Charles Ernest.** 667.2 P37
Dyes and dyeing. 1913. McBride.
Not intended for the chemist or the professional dyer, but for the beginner who is interested in hand dyeing on a small scale. Will be of interest both to practical amateurs and to those who take up applied art as an avocation. Gives special methods for various materials.

Slater, J. W. r 667.2 S63
Manual of colours and dye wares; their properties, applications, valuation, impurities and sophistications. Ed.2, rev. & enl. 1882. Lockwood.

Ganswindt, A. r 667.236 G16
Das färben der seide; wollseide, halbseide und kunstseide. 1914. (Hartleben's chemisch-technische bibliothek.)
"Literatur-verzeichnis," p.7.

Coal-tar dyes

Beacall, Thomas, and others. qr 667.26 B34
Dyestuffs & coal-tar products; their chemistry, manufacture and application, including chapters on modern inks, photographic chemicals, synthetic drugs, sweetening chemicals and other products derived from coal tar. 1915. Lockwood. (Manuals of chemical technology.)
Reprinted with additions from "Industrial and manufacturing chemistry;" ed. by Geoffrey Martin.

Berlin Aniline Works. qr 667.26 B45a
[Dyeings on textiles.] 6v.
v.1. Metachrome dyes on worsted yarn.
v.2. Dyeings on silk.
v.3. Sulfur dyes on cotton yarn.
v.4. Dyeings on woolen yarn.
v.5. Jute.
v.6. Substantive cotton dyes on cotton yarn.
Interesting series of samples showing results of dyeing on various materials.

Berlin Aniline Works. r 667.26 B45
Dyestuffs of the Berlin Aniline Works; their properties and application in textile dyeing. 1904.
Valuable technical information.

Bersch, Josef. r 667.26 B46a
Die teerfarbstoffe; ihre konstitution, eigenschaften und anwendung. Ed.2, rev. 1912. (Hartleben's chemisch-technische bibliothek.)
"Fach-literatur," p.244-245.
Statement in simple form of the chemistry, manufacture and uses of the coal-tar colors.

Cain, John Cannell, & Thorpe, J. F. r 667.26 C12
Synthetic dyestuffs and the intermediate products from which they are derived. Ed.2, rev. 1913. Griffin.

Valuable work on preparation of coloring matters and intermediate products. Requires considerable knowledge of organic chemistry. Sections on dyeing and dye analysis are too brief to be of much value.

"Noteworthy addition to the literature of specialised organic chemistry." *Journal of the Society of Dyers and Colourists*, 1905.

Green, Arthur George. 667.26 G82
Analysis of dyestuffs and their identification in dyed and coloured materials, lake-pigments, foodstuffs, etc. Ed.2. 1916. Griffin.

"For the most part the revised and completed results of a series of investigations conducted by the author, with the assistance of various collaborators, during the past twenty years." *Preface*.

Wahl, André.

667.26 W13

Manufacture of organic dyestuffs; authorised translation with additions, from the French by F. W. Attack, with a preface to the English edition by Edmund Knecht. 1914. Bell.

"Books of reference," p.325-328.

"It should...be clearly understood that anyone seeking to derive any benefit from the book must of necessity possess a good knowledge of organic chemistry...The *application* of dyestuffs is very superficially dealt with...Deals concisely with raw products, intermediate products, and finished dyestuffs in sufficient detail to give the reader a complete survey of the subject." *Preface*.

Textile printing

Knecht, Edmund, & Fothergill, J. B.

r 667.3 K33

Principles and practice of textile printing. 1912. Griffin.

Comprehensive treatise on materials, methods and styles of printing various fabrics. Contains many samples of actual prints.

Inks

Mitchell, Charles Ainsworth, & Hepworth, T. C.

667.4 M74a

Inks; their composition and manufacture, including methods of examination and a full list of English patents. Ed.2, rev. 1916. Griffin.

"Literature," p.238.

Brings together the scattered information on writing and printing inks and those for miscellaneous purposes. The examination of inks and manuscripts is included and a chapter given on color printing. Numerous formulas are given.

Underwood, Norman, & Sullivan, T. V.

667.52 U25

Chemistry and technology of printing inks. 1915. Van Nostrand.

Practical book on the testing, production and properties of ink materials, ink manufacture, and the relation of analysis to composition. Includes only materials and methods which have proved of actual service in modern practice. Authors are respectively chief and assistant chief, Ink making division of the United States bureau of printing and engraving.

Paints

American Society for Testing Materials.

r 667.6 A51

Reports of the Committee on preservative coatings for structural materials, 1903-13. 1913.

The same. 1903-13. (In its Proceedings, v.3-13.) . . r 620.1 A51 v.3-13

Affiliated with the International Association for Testing Materials.

Collected reports, reprinted from Transactions of the society. Embodies results of extensive tests.

Cheesman, Frank P.

r 667.6 C41

Review of technical paints. Ed.9. 1915. Cheesman.

Pamphlet containing specifications, and some discussion of paints and paint materials.

Gardner, Henry Alfred.

667.6 G18

Paint technology and tests. 1911. McGraw.

Author is (1911) director of the Scientific section, Paint Manufacturers' Association of the United States. This association has conducted extensive tests of the durability of various paints exposed to atmospheric influence in different parts of the country. Book is largely a summary of these tests, compiled from the bulletins of the association. Includes tests in Pittsburgh.

Hurst, George Henry, *comp.*

667.6 H95a

Manual of painters' colours, oils and varnishes for students and practical men; revised by Noel Heaton, with a chapter on varnishes by M. B. Blackler. Ed.5. 1913. Griffin.

"Classified bibliography of works on paint and colour manufacture," p.510-513.

Paint and Varnish Society.

r 667.6 P165

Papers, 1911/12-1914/15.

For volumes for 1908/09-1910/11 see preceding catalogue, v.6.

Toch, Maximilian.

667.6 T54a

Chemistry and technology of mixed paints. Ed.2, rev. 1916. Van Nostrand.

First book on the subject. Gives a chapter on analysis of mixed paints, but is devoted chiefly to manufacture and to value of various mixtures as applied to engineering structures.

"The book is an interesting and instructive one on a subject which is not at all well understood." *Engineering record*, 1907.

Jennings, Arthur Seymour.

667.6612 J26

Painting by immersion and by compressed air; a practical handbook. 1915. Spon.

Metal coloring

Hartmann, Friedrich.

r 667.673 H32

Das färben der metalle; eine anleitung zum färben aller wichtigen metalle auf chemischem, elektrochemischem und mechanischem wege. 1912. (Hartleben's chemisch-technische bibliothek.)

Discusses physical and chemical properties of metals and the processes of cleaning and coloring metals and alloys.

Michel-Rousset, Jacques.

667.673 M66

La coloration des métaux; nettoyage, polissage, patinage, oxydation, métallisation, peinture, vernissage. 1912. (Nouvelle collection de recueils de recettes rationnelles.)

Much information on ornamental finishes and protective coatings for ferrous and non-ferrous metals.

Varnishes

Bottler, Max.

667.7 B64

German varnish-making; authorized translation with notes on American varnish and paint manufacture by A. H. Sabin. 1912. Wiley.

"Recent literature," p.322-329.

Stock, Erich.

r 667.7 S86

Die fabrikation der öllacke und siccative; anleitung zur herstellung sämtlicher öllacke und siccative, nebst einer einföhrung in die chemie und in die qualitative und quantitative chemische analyse; für die praxis bearbeitet und theoretisch erläutert. 1915. (Hartleben's chemisch-technische bibliothek.)

"Literaturverzeichnis," p.7-8.

668.1 Soap

Brannt, William Theodore, ed.

668.1 B71

Soap maker's hand book of materials, processes and receipts for every description of soap; ed. chiefly from the German of C. Deite and numerous other experts, with additions by W. T. Brannt. Ed.2, rev. & rewritten. 1912. Baird.

668.2 Glycerine

Koppe, Siegfried Walter.

668.2 K38

Glycerine; its production, uses and examination, for chemists, perfumers, soapmakers, pharmacists and explosives technologists; tr. from the German second edition by W. H. Simmons. 1915. Scott.

Deals with production, purification and properties of glycerin, and with the preparation of its principal derivatives, nitroglycerin and dynamite receiving special attention. Various industrial applications are discussed with reasonable fullness, and chemical analysis rather briefly. The literary style is objectionable by reason of the strictly literal translation.

Koppe, Siegfried Walter.

r 668.2 K38a

Das glyzerin; seine darstellung, anwendung und ermittlung für chemiker, parfumeurs, seifenfabrikanten, apotheker, sprengtechniker und industrielle. Ed.2, rev. & enl. 1913. (Hartleben's chemisch-technische bibliothek.)

668.3 Glue

Taggart, James Arthur.

668.3 T13

Glue book; how to select, prepare and use glue, a short, practical discussion of matters important to every glue user. 1913. Privately printed.

Emphasis is given to testing and grading. Book is addressed to the practical glue user rather than to the technically-trained man.

Vézien, L.

r 668.3 V29

Industries des os, des déchets animaux, des phosphates et du phosphate. 1914. (Encyclopédie scientifique.)

"Index bibliographique," p.405-407.

Deals with glue, gelatine and other bone products, and with both animal and geological sources of phosphate.

668.5 Essences. Perfumes

Askinson, George William.

668.5 A83a

Perfumes and cosmetics, their preparation and manufacture; a complete and practical treatise, containing complete directions and formulas for making handkerchief perfumes, smelling salts, sachets, fumigating pastils, cosmetics, hair dyes and all toilet preparations, including the use of synthetics; tr. from the German; revised with additions by W. L. Dudley and a corps of experts. Ed.4 [rev. & enl.]. 1915. Henley.

Gildemeister, Eduard, & Hoffmann, Friedrich, 1832-1904. 668.5 G38

Volatile oils; tr. by Edward Kremers. Ed.2. v.1. 1913. Longmans.

Bibliographical foot-notes.

Written under the auspices of Schimmel & Co. of Leipzig, the foremost manufacturers of these oils, and embodies the results of their years of work. Most exhaustive and critical treatise yet published (1913).

Kessler, Edward Joseph. 668.5 K22

Practical flavoring extract maker; a treatise on the manufacture of the principal flavoring extracts, in accordance with the requirements of the food laws of the United States. 1912. Spice Mill Pub. Co.

Walter, Erich. r 668.5 W19

Manual for the essence industry. 1916. Wiley.

Contents: The taste and the transfer of flavor to foods and beverages.—The raw materials yielding the different tastes.—Laboratory practice.—Non-alcoholic beverages (mineral waters, fruit juices and essences for effervescent lemonades, with a supplement on jams and fruit-wines).—The manufacture of liquors, liqueurs, spirits and other alcoholic beverages.—Confectionery, bakery and culinary essences.—Coloring matters for foods and drinks.—Cosmetic essences (perfumery, cosmetics and soap perfumes).

Gildemeister, Eduard, & Hoffmann, Friedrich, 1832-1904. r 668.511 G38

Die ätherischen öle. Ed.2. v.2-3. 1913-16.

Comprehensive, authoritative work on constituents of essential oils, physical and chemical methods of testing, and synthetic derivatives.

For v.1 see preceding catalogue, v.6.

Semmler, F. Wilhelm. r 668.511 S47

Die ätherischen öle nach ihren chemischen bestandteilen unter berücksichtigung der geschichtlichen entwicklung. 4v. 1906-07.

v.1. Allgemeiner teil.—Methanderivate.

v.2. Hydriert-cyklische verbindungen, kohlenwasserstoffe.

v.3. Sauerstoffhaltige verbindungen der hydriert-cyklischen reihe.

v.4. Benzolderivate und heterocyklische verbindungen.

"Literaturnachweis und obkürzungen," v.1, p.15-16.

Most extensive reference treatise ever published (1912) on chemistry of the essential oils and their constituents.

668.6 Fertilizers

See also Fertilizers, 631.5

Fritsch, J. 668.6 F95

Manufacture of chemical manures; tr. from the French, with numerous notes, by Donald Grant. 1911. Scott.

Takes up manufacture of soluble phosphates, superphosphates, phosphoric acid and phosphorous, basic slag fertilizers, nitrogenous manures, potassic manures, etc.

Bencke, Albert. r 668.666 B42

Die erzeugung künstlicher düngemittel mit luftstickstoff. 1913. (Hartleben's chemisch-technische bibliothek.)

Describes clearly recent developments in obtaining artificial fertilizers by combination with atmospheric nitrogen. Different processes are given, including methods for pure nitrogen, synthetic ammonia, nitrites, cyanogen compounds, etc.

668.7 Destructive distillation

Canada—Mines branch. (Department of mines.) r 668.7 C16

Products and by-products of coal, by Edgar Stansfield and F. E. Carter. 1915.

Pamphlet, outlining briefly the methods of coke manufacture and the properties and industrial applications of by-products.

Lunge, George.

r 668.7 L97c2

Coal-tar and ammonia. Ed.5, enl. 3 pts. in 3v. 1916. Van Nostrand.

Enlarged edition of his "Treatise on the distillation of coal-tar and ammoniacal liquor."

The standard work on the subject (1910).

Warnes, Arthur R.

668.734 W23

Coal tar distillation and working up of tar products. 1913. Allan.

Brief treatment, with special attention to practical apparatus and working of actual plants.

Stevens, George H.

r 668.7362 S84

Manufacture of synthetic phenol from benzol by sulphonation; synthetic phenol (carbolic acid), its uses, the raw materials and the necessary apparatus and equipment for its production on a commercial basis. 1916. Privately printed.

669 Metallurgy

Agricola, Georg.

qr 669 A27g

Georgius Agricola de re metallica; tr. from the first Latin edition of 1556, with biographical introduction, annotations and appendices upon the development of mining methods, metallurgical processes, geology, mineralogy & mining law from the earliest times to the 16th century by H. C. Hoover and L. H. Hoover. 1912. Mining Magazine.

"Bibliographical notes," p.599-606.

"De re metallica" is the most important of the writings of Agricola (whose real name was Georg Bauer). It was the first extensive systematic treatise on mining and metallurgical processes.

"During 180 years it was not superseded as the text-book and guide to miners and metallurgists... That it passed through some ten editions in three languages at a period when the printing of such a volume was no ordinary undertaking is in itself sufficient evidence of the importance in which it was held, and is a record that no other volume upon the same subjects has equalled since." *Translator's preface.*

Austin, Leonard Strong.

669 A936

The metallurgy of the common metals; gold, silver, iron, copper, lead and zinc. Ed.4, rev. & enl. 1913. Mining and Scientific Press.

Brief, practical outline. Gives some general information and considers specifically the processes for extraction of gold, silver, iron, copper, lead and zinc.

Engineering and mining journal.

669 E64

Handbook of milling details; comp. from the Engineering and mining journal by the editorial staff. 1914. McGraw.

Appeared under the general head of "Details of metallurgical practice," Nov. 1909-Dec. 1913.

Contains miscellaneous articles classified by subjects.

"The title of the book is not perfectly descriptive, inasmuch as besides milling there is something about smelting and refining." *Preface.*

Fenchel, Adolf Siegmund Leopold.

669 F35

Metallurgy; a textbook for manufacturers, foremen and workers in the metal industries, with a special consideration of dental metallurgy; tr. by H. J. Morris. 1911. Bale.

"Literature," p.255-267.

Devoted mainly to metallography and dental metallurgy. Does not deal at all with extraction of metals from ores, but considers physical and chemical properties of metals, alloys and solders.

Gowland, William.

r 669 G75

Metallurgy of the non-ferrous metals. 1914. Griffin.

Concise but thorough treatment. While in part compiled from other authoritative works, discrimination is shown in selection of material. Only the really useful and important features are presented. Devoted to details of commercial metallurgical practice rather than to principles. Considers copper, lead, gold, silver, platinum, mercury, zinc, cadmium, tin, nickel, cobalt, antimony, arsenic, bismuth and aluminium.

"To the man whose time is limited, or who has no technical library within reach, the book will be one of the most valuable that has ever been published." *Nature*, 1914.

Hofman, Heinrich Oscar.

669 H68

General metallurgy. 1913. McGraw.

"Bibliography," p.2.

The same.....r 669 H68

Comprehensive work.

"The aim has been to cover the field of general metallurgy as a whole. The good of the older endeavor has been combined with that of modern research, and the whole has been treated from the point of view of the metallurgist who has a leaning toward physical chemistry. Mechanical processes have received more consideration than has been customary." *Preface*.

Lang, Herbert.

669 L23

Metallurgy. v.1. 1911. McGraw.

v.1. Introductory.

Praiseworthy work, setting forth clearly the fundamental principles. Differs from most treatises in its arrangement, not according to metal sought, but according to general nature of the processes (resembling Fulton's "Principles of metallurgy"). Sixteen years in preparation. Author has kept in view the following ends: "to bring theory up with practice; to furnish a ground plan on which the student may base his inquiries as in the more formal sciences; and finally to correlate the facts contained in the vast and increasing output of special articles which have now come to constitute the best part of written metallurgy." Maintaining the superiority of American methods and literature, author has avowedly confined himself to modern American practice.

r 669 M64

Metal statistics, 1908, 1913-16. 1908-16. Amer. Metal Market Co.

Selected statistics of production and prices of the common metals. Most important section is that on iron and steel, prepared under direction of Mr B. E. V. Luty of Pittsburgh.

For volumes for 1910-12 see preceding catalogue, v.6.

New York Metal Exchange.

qr 669 N26

Statistical review of the domestic and foreign metal markets; annual statistical report of the New York Metal Exchange, 1912-15.

For volumes for 1908-11 see preceding catalogue, v.6.

Phillips, John Arthur.

669 P51

Elements of metallurgy; a practical treatise on the art of extracting metals from their ores; revised and enlarged by the author and H. Bauerman. [Ed.2], rev. & enl. 1887. Griffin.

Institute of Metals.

r 669.05 I24

Journal, 1912, no.2-date. v.8-date. 1912-date.

Devoted to metallurgy of the non-ferrous metals and alloys.

For v.1-7 see preceding catalogue, v.6.

qr 669.05 M6452

Metallurgie; zeitschrift für die gesamte hüttenkunde: aufbereitung, eisen- und metallhüttenkunde, metallographie [semimonthly], 1904-11. 1.-8. jahrgang. [1904-11.]

Continued by "Ferrum" and "Metall und erz."

Revue de métallurgie; index, v.1-5, 1904-08.

qr 669.05 R37

For volumes of magazine see preceding catalogue, v.6.

Liddell, Donald M. *comp.*

r 669.o8 L68

Metallurgists and chemists' handbook; a reference book of tables and data for the student and metallurgist. 1916. McGraw.

Contents: Mathematics.—Price and production statistics.—Physical constants.—Chemical data.—Sampling, assaying and analysis.—Ore dressing.—Cyanidation.—Fuels and refractories.—Mechanical engineering and construction.—General metallurgy.—First aid.

Associazione fra gli Industriali Metallurgici Italiani, Milan.

qr 669.0945 A84

Metallurgic industry in Italy; description of some of the principal works. [1911?]

Well illustrated guide to important metallurgical and mechanical industries. Prepared for the proposed meeting of the Iron and Steel Institute in Turin.

Metallography

Campbell, William, *comp.*

r 669.05 S37 v.36

Recent progress in metallography [a bibliography]. 1915. (In *School of mines quarterly*, v.36, p.249-279.)

Continuation of "Abstracts—metallography and alloys," published in "School of mines quarterly," July 1912, p.402-408.

Guertler, William.

qr 669.042 G95

Metallographie; ein ausführliches lehr- und handbuch der konstitution und der physikalischen, chemischen und technischen eigenschaften der metalle und metallischen legierungen. v.1, pt.1-2. 1909-13.

v.1. Die konstitution.

qr 669.05 I248

Internationale zeitschrift für metallographie; zentralblatt für die gesamte theorie und praxis der metalle und legierungen [monthly], Feb. 1911-date. v.1-date. 1911-date.

No number issued for April 1911.

Robin, Felix.

qr 669 R54

Traité de métallographie. 1912.

"Treatment is essentially practical in nature, the innumerable methods of examination, analysis, etc., being presented in such form as to give the work the character of a comprehensive handbook." *Metallurgical and chemical engineering*, 1912.

Rosenhain, Walter.

669.042 R72

Introduction to the study of physical metallurgy. 1914. Constable.

Contents: Introductory.—The structure and constitution of metals and alloys: The microscopic examination of metals; The metallurgical microscope; The micro-structure of pure metals and of alloys; The thermal study of metals and alloys; The constitutional diagram and the physical properties of alloys; Typical alloy systems; The iron-carbon system.—The properties of metals as related to their structure and constitution: The mechanical testing of metals; The effect of strain on the structure of metals; The thermal treatment of metals; The mechanical treatment of metals, including casting; Defects and failures in metals and alloys.

"References" at the end of each chapter.

A work of great merit, presenting an up-to-date treatment of the nature, properties and behavior of metals and alloys, as distinct from the reduction of metals from their ores, which the author would designate as "process" or "chemical" metallurgy.

669.1 Iron and steel

Bibliography

West of Scotland Iron and Steel Institute. r 016.669.1 W56

List of books relating to the iron and steel industry contained in the [principal libraries in the west of Scotland]. 1916.

General works

Allen, Horace. 669.1 A42

Metallurgical manual of iron and steel, their structure, constitution and production; a practical treatise for the use of manufacturers, engineers and students. 1911. Technical Pub. Co.

Appeared in "Practical engineer," London, v.37-43, Feb. 21, 1908-March 10, 1911.

Practical and fairly complete explanation of principles and practice in the production of iron and steel.

American Iron and Steel Institute. r 669.1 A51

Annual statistical report, 1913-16. 1914-17.

Issued by the American Iron and Steel Association until 1913, when the American Iron and Steel Institute took over all work previously done by the former association.

For reports for 1871-1912 see preceding catalogue, v.1, under "American Iron and Steel Association."

Backert, Adolphus Otto, ed. q 669.1 B12

A B C of iron and steel, with a directory of the iron and steel works and their products of the United States and Canada. 1915. Penton Pub. Co.

The same.....qr 669.1 B12

Non-technical descriptive work by a number of authors.

Cain, John R. and others. q 669.1 C12

Preparation of pure iron and iron-carbon alloys. 1916. (United States—Standards bureau. Scientific papers, no.266.)

"Bibliography," p.26.

The same. (In United States—Standards bureau. Bulletin, v.13, p.1-26.).....qr 530.8 U25 v.13

Preparation of laboratory samples.

Chamberlain, G. D. r 669.1 C35

Some developments of the iron and steel industry. [1913.]

Reprinted from the "Journal of industrial and engineering chemistry," v.5, May 1913.

Brief survey of recent progress. Abstract of his address as chairman of the Pittsburgh section of the American Chemical Society, January 1913.

Cooke, Arthur O. j 669.1 C77

A day in an iron-works. [1912.] Frowde. (Oxford industrial readers.)

Binder's series reads "World at work."

Author takes his readers on a visit to an iron-works in South Wales. There they learn how iron is prepared for use, how it is converted into steel and how the ingot of steel is rolled and shaped into a rail.

Hearson, Hugh Reginald. 669.1 H38

The manufacture of iron and steel; a handbook for engineering students, merchants and users of iron and steel. 1912. Spon.

Elementary. Gives brief and simple outline of the principal operations and processes.

Hudson, O. F.

669.1 H88

Iron and steel; an introductory text-book for engineers and metallurgists. 1913. Constable. (Outlines of industrial chemistry.)

Contains also a section on corrosion by G. D. Bengough.

Bibliography, p.168.

Concise manual dealing with principles of ferrous metallurgy, constitution and properties of iron and steel. Treats practical methods of manufacture very briefly.

Iron and Steel Institute.

669.1 I28j

The Iron and Steel Institute in America in 1890; special volume of "Proceedings." (Journal, v.38.)

The same. (In its Journal, v.38.)r 669.105 I2863 v.38

Contents: On the American iron trade and its progress during 16 years, by Sir Lowthian Bell.—Notes on the iron ore districts visited by the members of the Institute during the Northern tour, by G. J. Snelus.—Notes on the iron and steel industries of the United States, by William Colquhoun.—Notes upon American iron ore deposits, with special reference to those visited by the Institute in the Northern portion of the United States, by John Birkinbine.—Notes on excursions and visits.—Appendix.

Ledebur, Adolf.

r 669.1 L51a

Handbuch der eisenhüttenkunde, für den gebrauch im betriebe wie zur benutzung beim unterrichte bearbeitet. Ed.5. 3 pts. in 3v. 1906-08.

pt.1. Einführung in die eisenhütten kunde.

pt.2. Das roheisen und seine darstellung.

pt.3. Das schmiedbare eisen und seine darstellung.

"Literatur" at the end of each chapter.

The standard German work on the metallurgy on iron. Author is (1900) professor in the Freiburg mining school.

Sauveur, Albert.

qr 669.1 S26a

Metallography and heat treatment of iron and steel. Ed.2. 1916.

Sauveur.

The same. 1912. Sauveur.....q 669.1 S26

Title reads "Metallography of iron and steel."

The same. 1912. McGraw.....qr 669.1 S26

Author is (1916) professor of metallurgy and metallography in Harvard University, and was editor of the "Metallographist" (1898-1903) and its successor the "Iron and steel magazine" (1904-1906) during their entire existence. Discusses apparatus, manipulations and nomenclature of metallography, explains the purpose and effects of various metallurgical processes and studies the structural composition of the important commercial forms of iron and steel. Best work on ferrous metallography yet published. Chief defect for reference work is in the make-up, each of the 24 lessons and two appendixes being paged separately.

United States Steel Corporation.

qr 669.1 U25

Description of exhibits of United States Steel Corporation and subsidiary companies, Panama-Pacific International Exposition, San Francisco, 1915, prepared by A. T. DeForest.

Wedding, Hermann.

r 669.1 W41a

Ausführliches handbuch der eisenhüttenkunde; gewinnung und verarbeitung des eisens in theoretischer und praktischer beziehung unter besonderer berücksichtigung der deutschen verhältnisse. v.4, pt.1-2. 1907-08.

"Zweite vollkommen ungearbeitete auflage von des verfassers bearbeitung von Dr. John Percy's 'Metallurgy of iron and steel.'"

v.4. Die gewinnung des eisens aus den erzen (fortsetzung).—Die gewinnung des schmiedbaren eisens aus roheisen im festern oder teigigen zustande.

The most exhaustive treatise in print (1908). Describes in great detail the raw materials and methods of preparation for use, processes of reducing iron ores and manufacturing various kinds of iron and steel, methods of working, machinery used, etc.

Directories. Periodicals. Societies

r 669.102 N15

National iron and steel, coal and coke blue book, 1902, 1907, 1911.
1902-11. Polk. Pittsburgh.

Directory of producers in United States and Canada. Brief data regarding each plant. Has index of iron and steel products and directory of steel company officials.

American Iron and Steel Institute.

qr 669.105 A5122m

Monthly bulletin, 1913-Oct. 1917. v.1-v.5, no.5. 1913-17.

March-Oct. 1917, title reads "Bimonthly bulletin."

American Iron and Steel Institute.

r 669.105 A5122

Year book [1st-5th], 1910-15. 1913-17.

Contains the official proceedings and papers of the institute.

Volume for 1910, title reads "Proceedings."

No meeting held in 1911.

On Jan. 1, 1913 the American Iron and Steel Institute took over all work previously done by the American Iron and Steel Association.

qr 669.105 F42

Ferrum; zeitschrift für theoretische eisenhüttenkunde und allgemeine materialkunde; neue folge der Metallurgie, monatlich, Oct. 1912-date.
v.10-date. 1912-date.

Iron and Steel Institute.

r 669.105 I2863c

Carnegie scholarship memoirs. v.5-7. 1913-16.

From the foundation of the Carnegie research scholarships, in 1900, to 1908, the reports of the research work carried on by the holders of the scholarships were published in the "Journal of the Iron and Steel Institute," v.57-78 (r 669.105 I2863).

For v.1-4 see preceding catalogue, v.6.

Staffordshire Iron and Steel Institute.

r 669.105 S77

Proceedings, 1911/12-1915/16. v.27-31. 1912-17.

Formerly known as the South Staffordshire Institute of Iron and Steel Works' Managers.

For v.21-26 see preceding catalogue, v.6.

American Iron and Steel Institute.

r 669.106 A51

Biographical directory. 1911.

Photographs and brief biographies of most of the members. The institute was established in 1910.

History of iron and steel

Smith, Joseph Russell.

j 669.109 S65

Story of iron and steel. 1913. Appleton.

Chapters on iron ores and their formation, the early history of iron, the growth of the steel industry and modern methods of manufacture.

Metallography of iron and steel

Edwards, Charles Alfred.

669.113 E31

Physico-chemical properties of steel. 1916. Griffin.

Constitution of iron carbon alloys and some special steels. Concise treatment, with thorough citation of references.

Howe, Henry Marion.

q 669.113 H85

Metallography of steel and cast iron. 1916. McGraw. (The metallurgy of steel.)

"Consists of two distinct parts, an introduction to the new science of microscopic metallography, as applied to steel and cast iron, and an extended study of the very new branch of that science, the mechanism of plastic deformation." *Preface.*

Part of a proposed series on iron and steel. Comprehensive and scholarly treatment, concerned with the theory rather than the methods of metallography. The result of long and penetrating original research by one of the highest authorities on the constitution of iron and steel. Much of the author's pioneer work is far in advance of practical application at the present day (1916).

Preuss, Ernst.

r 669.113 P93

Die praktische nutzanwendung der prüfung des eisens durch ätzverfahren und mit hilfe des mikroskopes; kurze anleitung für ingenieure, insbesondere betriebsbeamte. 1913.

"Literatur-verzeichnis," p.102.

Primrose, John Stewart Glen.

669.113 P95

Practical metallography of iron and steel. [1913.] Scientific Pub. Co.

"Bibliography," p.124-126.

Concise, useful manual, for the practical worker. Contains chapters revised from Sexton's "Metallurgy of iron and steel."

Blast-furnaces. Iron

Alabama—Geological survey.

669.12 A31

Iron making in Alabama, by W. B. Phillips. Ed.3. 1912.

Hatfield, William Herbert.

669.12 H34

Cast iron in the light of recent research. 1912. Griffin.

"Nomenclature," p.226-239.

Most of the material has appeared previously in technical journals and proceedings of technical societies, much of it being from the author's own investigations.

"Object...has been to present, within the compass of a single volume, the results of many researches on the nature and properties of cast and malleable cast iron, and the scientific principles underlying their manufacture." *Preface.*

Turner, Thomas.

r 669.12 T86a

Metallurgy of iron. Ed.4, rev. & enl. 1915. Griffin.

Being v.1 of his "Metallurgy of iron and steel."

Volume 2 was never written. Its place is taken by Harbord's "Metallurgy of steel." Assumes a general knowledge of ironmaking, and attempts, by extreme condensation and copious bibliographical references, to produce a work standing between an exhaustive treatise and an elementary text-book.

Lilje, Friedrich.

qr 669.12224 L69

Hochofen-begichtungsanlagen unter besonderer berücksichtigung ihrer wirtschaftlichkeit. 1913.

Gives a good idea of German construction, and deals thoroughly with commercial and financial considerations.

Wagner, Frederick Henry.

669.12225 W13

Cleaning of blast-furnace gases. 1914. McGraw.

Reviews recent practice and original investigations of the author. Includes chapter on "Operative plants in America."

Iron and steel foundries

Harbison-Walker Refractories Co. 669.1234 H24

A study of the malleable furnace. 1915. Pittsburgh.

Concise and clearly written summary. In addition to design and operation of the malleable or air furnace and the annealing furnace, gives characteristics of and specifications (of the American Society for Testing Materials) for malleable castings, discusses influence of various elements on castings, and gives some elementary metallography.

Marion Malleable Iron Works, Marion, Ind. r 669.1234 M38

Malleable iron shoes for continuous stove pipe; information on malleable iron castings, continuous stove pipe, standard shoes and lugs, hydraulic tables, useful formulae. 1914.

Booklet published by manufacturers of shoes and lugs for the metal bands or hoops of wooden pipes and tanks. Includes historical notes on iron manufacture, and specifications for malleable castings, and pipe bands.

Hall, John Howe. 669.12342 H17

The steel foundry. 1914. McGraw.

Valuable contribution to the literature of the subject. Affords a comparison of the merits of available steel-making processes and discusses scientific problems of the steel foundry. Does not neglect practical methods, but is concerned mainly with fundamental metallurgical principles.

Simonson, Arthur. 669.12342 S61

How to make converter steel castings; a comprehensive discussion of the methods involved in the manufacture of steel castings by the converter process. Ed.2. 1914. Penton Pub. Co.

Compiled from a series of articles written for and published by the "Foundry." Brief practical outline of methods according to the Tropenas process.

Steel

Carnegie, David, & Gladwyn, S. C. 669.16 C21

Liquid steel; its manufacture and cost. 1913. Longmans.

Comprehensive treatment of the manufacture of steel by the crucible, Bessemer, open-hearth and electric processes. Particular emphasis is laid on the cost of materials and operations and the amounts of materials used. Recent American practice is given considerable attention. Does not deal with mechanical treatment of steel.

Harbord, Frank William, & Hall, J. W. r 669.16 H24a3

Metallurgy of steel. Ed.5, rev. & enl. 2v. 1916. Griffin. (Metallurgical series.)

v.1. The manufacture of steel.—Finished steel.

v.2. The mechanical treatment of steel.—Reheating.

v.2 contains bibliographies.

Complement of Turner's "Metallurgy of iron." Thorough treatise on manufacture and physical properties. The discussion of mechanical treatment of steel is the best available (1916). Suitable for manufacturers and advanced students.

Jessop (Wm.) & Sons, Sheffield, Eng. qr 669.16 J29

Visit to a Sheffield steel works. [1913?]

Popular and somewhat humorous description of plant and processes.

Noble, H. r 669.16 N38a

Fabrication de l'acier. Ed.2, rev. & enl. 1913.

Thorough account of acid and basic steel-making in the converter and the open-hearth furnace. Treatment is essentially practical and the current French practice is described in detail.

Dichmann, Karl.

669.1633 D54

Basic open-hearth steel process; tr. and ed. by Alleyne Reynolds.
1911. Van Nostrand.

An elaboration of papers in "Stahl und eisen" during 1905.

"The idea has been to investigate the conditions occurring in order to secure the complete utilisation of all raw materials, both basic and fuel, and to present the results quantitatively, so that they may be of use to the manufacturer." *Practical engineer*, 1911.

Electric furnaces

Canada—Mines branch. (Department of mines.)

qr 669.167 C16

Electrothermic smelting of iron ores in Sweden, by Alfred Stansfield. 1915.

Kershaw, John Baker Cannington.

669.167 K21

Electro-thermal methods of iron and steel production, with an introduction by J. A. Fleming. 1913. Constable.

"Lists of English and foreign patents relating to electric furnaces and iron and steel production, granted 1898 to 1911," p.196-204, "Abstracts and reprints of the earlier patents," p.204-223.

An earlier edition has title "Electric furnace in iron and steel production" (r 669.167 K21).

Practical, descriptive work on the different types of electric furnaces now (1913) in operation for steel production. Chapter on "Comparative power consumption and running costs." Material compiled largely from technical journals.

Meyer, Oswald.

r 669.167 M65

Geschichte des elektroisens, mit besonderer berücksichtigung der zu seiner erzeugung bestimmten elektrischen öfen. 1914.

"Literatur," p.183.

Classification of electric furnaces for iron and steel production, with history of their development and a review of the types now (1914) in use and in process of construction.

Rodenhauser, Wilhelm, & Schoenawa, I.

669.167 R58e

Electric furnaces in the iron and steel industry; from advance sheets of the second German edition, authorized translation and additions by C. H. Vom Baur. 1913. Wiley.

Technical treatise on electrometallurgy of iron and steel, discussing electric furnaces with regard to design, materials of construction and principles of operation.

Heat treatment

Brearley, Harry.

669.17 B71

Heat treatment of tool steel; an illustrated description of the physical changes and properties induced in tool steel by heating and cooling operations. Ed.2. 1916. Longmans.

The same. 1911.....r 669.17 B71

"Invaluable work of reference, both to the maker and the user of tool steel... Gives the ripe experience of a steel expert in terms which can be easily understood." *Mechanical engineer*, 1912.

Bullens, Denison K.

669.17 B87

Steel and its heat treatment. 1916. Wiley.

Consideration of practical heat treatment, with more attention to application and effects of heat than to details of furnace design and construction. Includes alloy steels.

669.17 H38

Heat-treatment of steel; a comprehensive treatise on the hardening, tempering, annealing and casehardening of various kinds of steel, including high-speed, high-carbon, alloy and low-carbon steels, with chapters on heat-treating furnaces and on hardness testing [comp. and ed. by Erik Oberg]. 1914. Industrial Press.

Mainly compiled from "Machinery." Appeared in part in "Machinery's reference series."

Houghton (E. F.) & Company, Philadelphia.

r 669.17 H83

Steel and its treatment. Ed.2. 1914.

Useful information on heat treatment and on properties of alloy steels.

Brearley, Harry.

669.1713 B71

Case-hardening of steel; an illustrated exposition of the changes in structure and properties induced in mild steels by cementation and allied processes. 1914. Iliffe.

"Author is an acknowledged metallurgical expert and has the power of cutting away many of the purely artificial difficulties surrounding scientific metallurgy without impairing in the least the soundness of his treatment." *Engineer (London)*, 1915.

Primarily a guide to commercial work, but is a valuable aid in metallography. Has chapter on automobile steels.

Giolitti, Federico.

669.1713 G43

The cementation of iron and steel; tr. from the Italian by J. W. Richards and C. A. Rouiller. 1915. McGraw.

Record of scientific studies on chemistry of cementation, and discussion of industrial applications of cementation and case-hardening.

Ideal Case-hardening Compound Company, New York. r 669.1713 I14

Case-hardening, pack-hardening, annealing of steel; a book of useful information and practical rules. Ed.4.

Trade literature dealing with processes and applications of case-hardening.

Scott, John C.

r 669.1731 S42

Tool steel and its uses. 1911. Bourne-Fuller Co.

Trade literature discussing the requirements of tool steel, and practical methods of treatment. Gives also testimonials, tables, prices and description of brands.

Alloy steels

Hibbard, Henry Deming.

669.174 H52

Manufacture and uses of alloy steels. 1915. (United States—Mines bureau. Bulletin 100.)

Contains bibliographies.

The same. (In United States—Mines bureau. Bulletin

100.) r 622.009 U25 no.100

Concise summary of characteristics and applications, considering only those alloy steels "in which the alloying...elements modify directly, positively and usefully some of the properties of the products." *Page 7.*

Mars, G.

r 669.174 M41

Die spezialstähle; ihre geschichte, eigenschaften, behandlung und herstellung. 1912.

Fairly comprehensive work on alloy steels, with considerable attention to the metallographic side.

Titanium Alloy Manufacturing Co. Niagara Falls, N. Y. r 669.174 T52

Ferro carbon-titanium in steel making. 1916.

Discusses use in structural steel, castings and other products. Considers also the effect of alumina in steel.

669.2 Gold and silver

Butters (Charles), & Co. r 669.2 B98

Slime filtration and cyaniding [by H. F. Julian. 1912].

Special attention to Butters filter system.

MacFarren, H. W. 669.2 M15

Text book of cyanide practice. 1912. McGraw.

"Classified bibliography," p.213-268.

Moderately technical guide to actual practice, primarily for those with little knowledge of the subject.

Megraw, Herbert Ashton. 669.2 M56d

Details of cyanide practice. 1914. McGraw.

Author has visited principal cyaniding plants of United States and Canada, and describes details of processes in use in different districts and mills. Cost data are freely included. Material appeared originally in "Engineering and mining journal."

Rose, Thomas Kirke. 669.2 R71a

Metallurgy of gold. Ed.6. 1915.

"Bibliography," p.564-574.

r 669.2 T32

Text-book of Rand metallurgical practice; designed as a "working tool" and practical guide for metallurgists upon the Witwatersrand and other similar fields, by Ralph Stokes and others. 2v. 1911. Griffin.

"Bibliography and references," v.2, p.430-432.

"Authors have endeavored to provide at once a text-book of Rand metallurgy, a 'working tool' for those concerned in each branch of ore reduction and treatment practice, and a guide to fellow-workers operating under similar conditions in other parts of the world. Whilst every effort has been made to describe, in full detail, such working points as are most likely to prove of practical service...the fundamental principles... have been given due consideration." *Preface.*

Stetefeldt, Carl A. r 669.223 S84

Lixiviation of silver-ores with hyposulphite solutions, with special reference to the Russell process. 1888. Scientific Pub. Co.

669.24 Nickel

Bayonne Casting Company, Bayonne, N. J. r 669.2451 B33

Treatise on monel metal. 1914.

Trade literature, discussing properties and describing commercial forms in which this metal is produced. "Monel" metal is a corrosion-resisting alloy prepared by direct reduction from nickel-copper matte.

669.25 Cobalt

Canada—Mines branch. (Department of mines.) qr 669.25 C16

Researches on cobalt and cobalt alloys conducted at Queens University, Kingston, Ontario. pt.1-5, in iv. 1913-16.

Contents: Preparation of metallic cobalt by reduction of the oxide, by H. T. Kalmus [and others].—The physical properties of the metal cobalt, by H. T. Kalmus and C. Harper.—Electro-plating with cobalt, by H. T. Kalmus [and others].—Cobalt alloys with non-corrosive properties, by H. T. Kalmus and K. B. Blake.—Magnetic properties of cobalt and of Fe₂ Co, by H. T. Kalmus and K. B. Blake.

669.27 Tungsten

Mennicke, Hans.

r 669.27 M62

Die metallurgie des wolframs, mit besonderer berücksichtigung der elektrometallurgie sowie der verbindungen und legierungen des wolframs samt seinen verwendungen; praktisches handbuch. 1911.

"Literaturverzeichnis," p.401-404.

"Patentliste," p.405-407.

Detailed discussion of the sources of tungsten, its production, properties, and many industrial applications.

669.3 Copper

Japing, Eduard.

r 669.3 J18a

Kupfer und messing, sowie alle technisch wichtigen kupferlegierungen, ihre darstellungsmethoden, eigenschaften und weiterverarbeitung zu handelswaren; bearbeitet von Hugo Krause. Ed.2, rev. & enl. 1912. (Hartleben's chemisch-technische bibliothek.)

Copper-reducing and refining, casting in copper and its alloys, forging, rolling and drawing are included.

Levy, Donald M.

669.3 L66

Modern copper smelting; being lectures delivered at Birmingham University, greatly extended and adapted and with an introduction on the history, uses and properties of copper. 1912. Griffin.

"References" at the end of each chapter.

Discusses history and uses of copper, and describes processes of ore dressing, smelting and refining. Written in England, but based largely on a study of practice in the United States.

Hofman, Heinrich Oscar.

669.33 H68

Metallurgy of copper. 1914. McGraw.

"Bibliography," p.3.

Treats the whole subject more fully than any other work published. Practice is mainly that in use in the United States.

Wilson, Alfred William Gunning.

r 669.33 W76

Copper smelting industries of Canada. 1913.

Issued by the Mines branch of the Department of mines of Canada.

Considers principal smelting companies historically and describes operations.

Greenawalt, William Eckert.

669.334 G83

Hydrometallurgy of copper. 1912. McGraw.

Contents: Roasting.—Hydrometallurgical process.

Practice in this field is not yet standardized and literature hitherto has been scattered and fragmentary. Author thinks the treatment of copper ores by leaching has an encouraging future. Discusses preliminary preparation of ore and deals with hydrometallurgical processes—both electrolytic and purely chemical.

669.4 Lead. 669.5 Zinc

Betts, Anson Gardner.

669.4 B46

Lead refining by electrolysis. 1908. Wiley.

"Bibliography," p.309-311.

Electrolytic refining of base bullion and argentiferous lead was first made commercially practicable by the author's process (using lead fluosilicate as an electrolyte). Summarizes experimental data in connection with perfection of the process. Brief chapter on manufacture and analysis of hydrofluoric and fluosilicic acids.

Pulsifer, William Henry, comp.

qr 669.409 P98

Notes for a history of lead and an inquiry into the development of the manufacture of white lead and lead oxides. 1888. Van Nostrand.

Liebig, R. G. Max.

r 669.5 L69

Zink und cadmium und ihre gewinnung aus erzen und nebenprodukten. 1913. (Chemische technologie in einzeldarstellungen; spezielle chemische technologie.)

Exhaustive treatise on occurrence, properties, chemistry and metallurgy. Includes table of zinc producers of the world, 1910. Detailed table of contents, but no index.

669.6 Tin 669.7 Aluminium

Lewis, William, comp.

r 669.6 L67

The tinman's companion, containing a list of prices of iron per lb., &c.; extracts from eminent authors on the manufacture of iron for tin-plates. 1876. Wright.

Georgeot, M.

669.683 G31

Fabrication du fer-blanc. Ed.2, rev. 1907.

Brief practical work.

Haggett, Earle Clifford, & Graves, H. R.

qr 669.7 H14

Some tests of aluminum. [1891.]

Typewritten copy.

Krause, Hugo.

r 669.7 K41

Das aluminium und seine legierungen, eigenschaften, gewinnung, verarbeitung und verwendung. 1914. (Hartleben's chemisch-technische bibliothek.)

"Literaturverzeichnis," p.7.

Successor to Mierzinski's "Die fabrikation des aluminiums und der alkalimetalle." Deals with properties, occurrence, metallurgy and working, and is pretty well up to date with respect to applications.

Leonard, Stephen Rose, & Schnepel, J. H.

qr 669.7 L62

Investigation of aluminum alloys. 1895.

Typewritten copy of thesis for M. E., Cornell University.

qr 669.718 R24

Reactions; a quarterly periodical devoted to the science of aluminothermics, 1909-date. v.2-date. 1909-date.

669.8 Fuels and furnaces

Le Chatelier, Henri.

qr 669.8 L48

Introduction à l'étude de la métallurgie. pt.1. 1912.

pt.1. Le chauffage industriel.

Valuable treatment of the principles and processes of combustion; solid, liquid and gaseous fuels; refractory materials and metallurgical furnaces of different types.

Toldt, Friedrich.

r 669.8 T57

Regenerativ-gasöfen, wissenschaftliche grundsätze für die anlage und berechnung solcher öfen; bearbeitet und erweitert von F. Wilcke. Ed.3, enl. 1907.

"Literatur," p.430.

Discusses fuels and combustion, and the details of design and construction of regenerative furnaces for various purposes. Revision of the edition of 1898 has been slight and the book is not up to date.

669.9 Alloys

- Gulliver**, Gilbert Henry. 669.9 G96
Metallic alloys; their structure and constitution. Ed.2, rev. & enl. 1913. Griffin.
"References" at the end of each chapter.
Valuable treatise on physical and chemical properties. Not intended as a guide to practical manufacture.
- Hiorns**, Arthur Horseman. 669.9 H58a
Mixed metals; or, Metallic alloys. Ed.3, rev. & enl. 1912. Macmillan.
Treats of the various commercial alloys, methods of manufacturing them, their chemical and physical properties and their uses.
- Ledebur**, Adolf. r 669.9 L51a
Die legierungen in ihrer anwendung für gewerbliche zwecke; bearbeitet und hrsg. von O. Bauer. Ed.4, rev. & enl. 1913.
- Desch**, Cecil Henry. 669.9135 D45
Intermetallic compounds. 1914. Longmans. (Monographs on inorganic and physical chemistry.)
"References," p.109-113.
Good résumé of what is at present known regarding the definite chemical compounds contained in alloys. Without definitely describing practical methods of investigation, presents a concise, lucid account of development in metallographic examination of alloys.

670 Manufactures

- Chamberlain**, James Franklin. j 670 C35
How we are clothed; a geographical reader. 1912. Macmillan. (Home and world series.)
About the various materials of which clothing is made, the preparation of leather, furs and rubber, and the manufacture of hats, shoes and gloves.
- Chase**, Annie, & **Clow**, E. j 670 C38a3
Stories of industry. Rev. ed. 2v. 1915-16. Educational Pub. Co.
The same. Rev. ed. 2v. 1913.....j 670 C38a2
The same. Rev. ed. 2v. 1911.....j 670 C38a
- United States**—Treasury department. r 6537
Report on manufactures; communication to House of representatives, Dec. 5, 1791, from Alexander Hamilton, secretary of the treasury, on the subject of manufactures. 1913. (63d cong. 1st sess. Senate. Doc. no.172, v.22.)

Trade directories

- qr 670.2 H44
Annuaire-almanach du commerce, de l'industrie, de la magistrature et de l'administration; par A. F. Didot et Sébastien Bottin. 115e année, in 4v. [1912].
Trade directory, including full list of Paris firms and selected list for the remainder of France and for foreign countries.
v.115, pt.1-4, title reads "Annuaire du commerce Didot-Bottin;" pt.5, title reads "Bottin mondain" and is catalogued separately (qr 914.436 B64).
For v.101 see preceding catalogue, v.1.

qr 670.2 H44

Hendricks' commercial register of the United States for buyers and sellers; especially devoted to architectural, contracting, electrical, engineering, hardware, iron, mechanical, mill, mining, quarrying, railroad, steel and kindred industries, 1913-16. 22d-25th annual edition. 1913-16.

For earlier volumes see preceding catalogue, v.4, 6.

qr 670.2 K17

Kelly's directory of merchants, manufacturers and shippers, and guide to the export and import, shipping and manufacturing industries of the world, 1916. Ed.30. [1916.]

"Intended to bring together...not only the names of the manufacturers, merchants, exporters, etc., of the United Kingdom trading with the colonies and abroad, but also those of all the more important foreign merchants (whether importers or exporters), and further, those of the manufacturers of the principal goods imported into the United Kingdom." *Preface.*

For earlier volumes see preceding catalogue, v.6.

Louisville and Nashville Railroad Company.

qr 917.5 L92

Industrial and freight shippers directory of Louisville & Nashville Railroad, 1914-15.

Massachusetts—Statistics bureau.

r 670.2 M45

Directory of Massachusetts manufactures; classified by industry, corporation, individual or firm name, and location, 1913. 1913.

New Jersey—Industrial statistics bureau.

r 670.2 N2612

Industrial directory of New Jersey; comp. under direction of W. C. Garrison, 1912, 1915. 1912-15.

Name of bureau was changed in 1914 from Bureau of statistics of labor and industries to Industrial statistics bureau.

New York (state)—Labor department.

r 670.2 N26

Industrial directory (1st-2d) of New York state, 1912-13. 1913-15.

Issued annually.

Newark, N. J. Board of Trade.

qr 670.2 N261

Directory; Newark made goods, Newark manufacturers, alphabetically arranged in English, French and Spanish; comp. and published by the Industrial exposition committee of the Board of Trade of the city of Newark. 1913.

Pennsylvania—Labor and industry department.

r 670.2 P39

Industrial directory (1st-2d) of Pennsylvania, 1913-16. 1914-16.

Prepared by the Bureau of statistics and information of the department.

Classified directory confined to establishments which produce for the general or wholesale trade and excluding small shops which do only a local business. Includes directories of boards of trade, manufacturers' associations, and labor organizations.

Pittsburgh Industrial Development Commission.

r 670.2 P67

Pittsburgh commodity index, and Supplement. 1913-14. [Pittsburgh.]

Comprehensive classified index to commodities manufactured and sold in the Pittsburgh district.

Thomas' register of American manufacturers and first hands in all lines; a classified reference book for buyers and sellers, 1914, 1916. 1914-16. Thomas Pub. Co.

Indexes 38,000 specific articles. Separate index to special brands and trade names. Gives approximate rating of firms listed.

For volumes for 1909, 1912 see preceding catalogue, v.6.

United States—Commerce department.

qr 670.2 T37

Trade directory of South America for the promotion of American export trade. 1914. (United States—Foreign and domestic commerce bureau. Miscellaneous series, v.13.)

The same. (In United States—Foreign and domestic commerce bureau. Miscellaneous series, v.13.).....r 382 U2537 v.13

History of manufactures

Birkinbine, John.

r 331 P39 v.22

Manufacture of pig iron in Pennsylvania. (In Pennsylvania—Industrial statistics, Bureau of. Annual report, v.22, p.D1-D128.)

Macfarlane, John James.

670.97481 M15

Manufacturing in Philadelphia, 1683-1912. 1912. Philadelphia Commercial Museum.

The same.....r 670.97481 M15

Descriptive and statistical. Shows magnitude and nature of manufacturing interests in Philadelphia. Freely illustrated.

Lippincott, Isaac.

r 670.977 L73

History of manufactures in the Ohio valley to the year 1860. 1914. [University of Chicago.]

Contents: Resources of the Ohio valley.—Industry during the period of exploration.—The pioneer period.—The mill period.

"Bibliography," p.199-204.

Thesis for Ph. D., University of Chicago.

671-673 Metal-working. Jewelry

Dunton (M. W.) Company, Providence, R. I.

r 671 D92

Soldering kinks. 1915.

Trade literature containing practical suggestions.

671 M64

Metal coloring and finishing. 1914. Industrial Press. (Machinery's reference series.)

Contents: Principles of metal coloring, by W. J. Kaup.—Coloring iron and steel, by E. F. Lake.—Coloring non-ferrous metals and alloys, by E. F. Lake.—Lathe burnishing of metals, by W. A. Painter.—The ball burnishing process, by C. L. Lucas.

qr 671.05 S54

Sheet metal [monthly], Feb. 1911—date. v.2—date. 1911—date.

v.2-3, Feb. 1911-Jan. 1913, title reads "Sheet metal shop and pattern cutter's magazine."

r 671.05 S81

The Steel and metal digest; monthly, April 1911—date. v.1—date. 1911—date.

Silver standard; a periodical of 1847; Feb. 1906–Nov. 1914. v.2–10, in 5. 1906–15. qr 671.1 S58

Issued irregularly by the Meriden Britannia Co., successor to Rogers Bros.

Espositer, Varni Co. New York. 671.15 E83
 Guide for gem buyers. 1914.

Small manual. Contains a dictionary of gems, discusses briefly the methods of cutting and polishing them, and explains the symbolism connected with them.

Hardware age; weekly, May 15, 1913–date. v.91, no.20–date. 1913–date. qr 672.05 I28

Formed by the consolidation of "Hardware" and "Iron age monthly," Jan. 1910. For v.77–v.91, no.19 see preceding catalogue, v.6, under title "Iron age-hardware."

American Sheet and Tin Plate Company, Pittsburgh. r 672.1 A51
 Reference book, containing data and information relative to the products of American Sheet and Tin Plate Company, Pittsburgh. 1912. Pittsburgh.

Contains, besides trade data, useful general information for contractors and builders.

Flanders, William Thomas. 672.1 F61a
 Galvanizing and tinning; a practical treatise on the coating of metal with zinc and tin by the hot dipping, electro galvanizing, sherardizing and metal spraying processes, with information on design, installation and equipment of plants. 1916. Williams.

The same. 1916.....r 672.1 F61

Treats only of methods for cast-iron, and small articles of wrought-iron and steel.

Sang, Alfred. qr 672.1 S22

Le zingage du fer et de l'acier. 1912.

Reprinted from "Revue de métallurgie," v.9, Jan.–May 1912.

Lloyd, Godfrey Isaac Howard. 672.71 L75
 The cutlery trades; an historical essay in the economics of small-scale production. 1913. Longmans.

Account of ancient cutlery trades and examination of present (1913) technical and economic conditions in the cutlery industry.

Gewecke, Hermann. r 673.11 G34
 Ueber die einwirkung von strukturänderungen auf die physikalischen, insb. elektrischen eigenschaften von kupferdrähten und über die struktur des kupfers in seinen verschiedenen behandlungsstadien, von der Technischen Hochschule zu Darmstadt zur erlangung der würde eines doktor-ingenieurs genehmigte dissertation.

American Institute of Metals. r 673.1205 A51 v.6–10
 Bulletin, Nov. 1911–Dec. 1916. 1911–17. (In its Transactions, v.6–10.)

Contains abstracts of metallurgical literature, patents, notes, reports and list of members.

Name was changed in Jan. 1912 from American Brass Founders' Association to American Institute of Metals.

674 Wood. Cork

For Wood-working, see 684

Dunning, Carroll W.

r 674 D92

Wood-using industries of Ohio. 1912.

Investigation upon which this report is based was undertaken by Ohio agricultural experiment station in coöperation with the United States forest service.

Information regarding kinds and quantities of wood used in various industries. Discusses preparation of wood and form in which manufacturers want it. Gives approximate prices.

Kellogg, Royal Shaw.

674 K16

Lumber and its uses. 1914. Radford Architectural Co.

"Forest service publications," p.339-342.

Discusses structure and properties of wood, seasoning and preservation, and the consumption of the various commercial woods for many purposes.

Nellis, Jesse C.

r 634.9 M26 v.9.

Wood-using industries of Maine. 1912. (In Maine—Forest commissioner. Report, v.9, p.83-185.)

The investigation upon which this report is based was undertaken by United States forest service in coöperation with the state of Maine.

Simmons, Roger Edwin.

qr 674 S59

Wood-using industries of New Hampshire. 1912.

Investigation upon which this report is based was undertaken by United States forest service in coöperation with the state of New Hampshire.

Simmons, Roger Edwin.

r 674 S59w

Wood-using industries of Virginia. 1912.

Investigation upon which this report is based was undertaken by United States forest service in coöperation with the commonwealth of Virginia.

qr 674 S72

Southern lumberman [weekly], 1911-date. v.61-date. 1911-date.**Southern Pine Association.**

r 674 S727

Lumber awakes; official report of the annual meeting (1st) of the subscribers to the association, 1916. [1916.]

Stecher, Gilbert Erwin.

674.83 S81

Cork; its origin and industrial uses. 1914. Van Nostrand.

Popular work, affording a fuller discussion of the cork industry than is to be found elsewhere (1914). Considers the cork-tree, gathering of cork, manufacturing processes, applications and substitutes.

675 Leather. Furs

Beltzer, Francis J.-G.

r 675 B42

Industries des poils et fourrures, cheveux et plumes. 1912.

"Bibliographie," at end of most chapters.

Describes furs, skins, hair and feathers of every kind, and discusses methods of treatment for commercial purposes.

Flemming, Louis Andrew.

r 675 F63a

Practical tanning; a handbook of modern processes, receipts and suggestions for the treatment of hides, skins and pelts of every description, including various patents relating to tanning, with specifications. Ed.3, rewritten & rev. 1916. Baird.

Comprehensive work, giving full details of modern American practice.

675 H52

Hides and skins, from the animal's back to the tannery door, written by specialists and authorities in the several departments of the hide and skin industry. 1912. Shoe and Leather Weekly.

Concerned only with their raw state. Takes up successively the hide fibre, selection and treatment of domestic hides, anthrax and its suppression, disinfection of hides, destruction of cattle-ticks, goatskins, and the foreign supply of hides and skins.

Jettmar, Josef.

r 675 J31m

Moderne gerbmethode; enthaltend verschiedene neuartige verfahren beim weichen, äschern, einfetten und aufhellen, sowie anleitungen zur herstellung moderner ledersorten. 1913. (Hartleben's chemisch-technische bibliothek.)

"Fachliteratur," p.251-253.

Deals especially with the scientific side of tanning methods.

Schlichte, Anton Augustus.

r 675 S34

Study of the changes in skins during their conversion into leather. 1915.

"Bibliography," p.62.

Thesis for Ph. D., University of Michigan.

Wood, Joseph Turney.

r 675 W85

The puering, bating & drenching of skins. 1912. Spon.

"Bibliography," p.282-291.

Principles and practice of preliminary processes in tanning.

Harding, Arthur Robert.

675.6 H25

Fur buyers' guide; complete instructions about buying, handling and grading raw furs, including size, color, quality, as well as when, where and how to sell. 1915. Privately printed.

From a very wide experience the author discusses the various problems of the raw fur trade, including the complications introduced by the "tame" furs of the fur-farming industry. Has brief chapter on golden-seal and ginseng roots.

676 Paper

American Newspaper Publishers' Association.

r 676 A51

Preservation of paper; paper submitted to a committee of the American Library Association by John Norris, chairman of the committee on paper of the American Newspaper [Publishers'] Association, Nov. 26, 1912. 1912. (Bulletin no.2795.)

Beveridge, James, comp.

r 676 B46

Papermakers' pocket book; specially compiled for paper mill operatives, engineers, chemists and office officials. Ed.2, enl. 1911. McCorquodale.

Compilation of data on technology of paper-making; information on classification and commercial sizes of papers and other information on the paper trade of various countries.

Bromley, Henry Aldous.

676 B76

Outlines of stationery testing; a practical manual. 1913. Griffin.

Small, useful collection of notes on the physical, microscopical and chemical examination of papers. Contains also short chapters on writing-inks and sealing-waxes and office paste.

Surface, Henry Earl, comp. qr 634.9 U25 no.123
Bibliography of the pulp and paper industries. 1913. (In United States—Forest service. Bulletin no.123.)

United States—Foreign and domestic commerce bureau. r 676.12 U25
Saving of waste paper material; how to select, assort and dispose of waste paper, rags and other paper-making material, May 10, 1916. 1916.

Cross, Charles Frederick, and others. 676.15 C89
Wood pulp and its uses [written] with the collaboration of W. N. Bacon. 1911. Constable. ("Westminster" series.)

Contents: The structural elements of wood.—Cellulose as a chemical individual and typical colloid; The lignone complex, ligno-cellulose; Special chemical note on autoxidation and researches of W. J. Russell.—Wood pulps in relation to sources of supply; forest trees and forestry.—The manufacture of mechanical wood pulp.—Chemical wood pulp.—News and printings.—Wood pulp boards.—The utilisation of wood waste.—Testing of wood pulp for moisture.—Wood pulp and the textile industries.—Specimen pages; various types of paper.

"Bibliography," p.263-264.

Treatment is only moderately technical. The sample leaves of commercial grades of paper are of interest.

677 Textile fabrics

American wool and cotton reporter. 677 A51
Textile processes; a collection of essays on processes in woolen, worsted and cotton manufacturing. 1910. Bennett.

Binder's title reads "Prize essays on processes in woolen, worsted, cotton and knit goods manufacturing."

Contains 100 essays, giving useful data regarding practice in different mills of the country.

Barker, Aldred Farrer. 677 B24t
Textiles. 1910. Constable. (Westminster series.)

Contains chapters on "The mercerized and artificial fibres and the dyeing of textile materials," by W. M. Gardner; "Silk throwing and spinning," by R. Snow; "The cotton industry," by W. H. Cook; "The linen industry," by F. Bradbury.

"Practically the whole range of textiles comes under review, with the exception of certain very special branches, such as trimmings, hose pipings, beltings, etc." *Preface.*

Dooley, William Henry. 677 D73a
Textiles for commercial, industrial and domestic arts schools, also adapted to those engaged in retail and wholesale dry goods, wool, cotton and dressmaker's trades. 1914. Heath.

Elementary book for those who have just entered the textile or allied trades. Considers various fibres and describes manufacture and testing of textiles.

"Author established and has been in charge of the first industrial school for boys and girls in Massachusetts since its inception." *Preface.*

Gibbs, Charlotte Mitchell. 677 G36
Household textiles. 1912. Whitcomb.

"Bibliography," p.229-233.

For the general reader. Describes more important textile fibers and fabrics and gives information on manufacturing processes.

Mitchell, Charles Ainsworth, & Prideaux, R. M. 677 M74
Fibres used in textile and allied industries. 1910. Scott.

Guide to examination and identification of fibers by chemical and microscopical methods. Includes fibers used in spinning, weaving, cordage, brush-making and upholstery. Presents classification, and considers sources and preparation briefly.

Muller, Theodore.

r 677 M96

Industrial fiber plants of the Philippines; their distribution, method of preparation and uses. 1913. (Philippine islands—Education bureau. Bulletin no.49.)

Murphy, William S. and others.

qr 677 M97

Textile industries; a practical guide to fibres, yarns & fabrics in every branch of textile manufacture. 8v. 1912. Gresham.

v.1. Introduction.—The principal events in textile history.—Textile fibres.—The preparation of textile fibres.

v.2. The preparation of textile fibres (continued).—Spinning.

v.3. Spinning (continued).

v.4. Spinning (continued).—Weaving.

v.5. Weaving (continued).

v.6. Textile weaving and design.—Carpet manufacture.

v.7. Carpet manufacture (continued).—Finishing processes.

v.8. Finishing processes (continued).

Discusses the sources of textile materials and deals in detail with processes of manufacture. Rather popular in style, avoiding unnecessary technicalities.

Posselt, Emanuel Anthony.

r 677 P84

Dictionary of weaves; a collection of all weaves from four to nine harness; 2,000 weaves conveniently arranged for handy use. pt.1. Textile Pub. Co. (Hand books of the textile industry, v.1.)

Walton, Perry.

677 W19

Story of textiles; a bird's-eye view of the history of the beginning and the growth of the industry by which mankind is clothed. 1912. Lawrence.

Comprehensive and interestingly written. Particular attention to American developments, especially in the cotton industry.

Witt, Otto Nicolaus.

r 677 W82

Chemische technologie der gespinntfasern; ihre geschichte, gewinnung, verarbeitung und veredelung. v.2, pt.2-3. 1913-14. (Handbuch der chemischen technologie; hrsg. von P. A. Bolley und anderen.)

General review of all the fibers commonly used.

Prepared in collaboration with Arthur Buntrock and Ludwig Lehmann.

For v.1, v.2, pt.1 see preceding catalogue, v.1, 6.

Woolman, Mrs Mary (Schenck), & McGowan, Mrs

677 W87

Ellen (Beers).

Textiles; a handbook for the student and the consumer. 1913. Macmillan.

Contents: Beginning of the textile industries.—Spinning.—Hand weaving.—Power weaving.—Woolen and worsted, raw materials.—Woolen and worsted, manufacture.—Cotton.—Silk.—Linen and minor fibers.—Consumer's judgment of textiles.—Microscopic study of textile fibers.—Chemical study of textile fibers.—Dyeing of textile fibers.—Laundry notes.—Hygiene of clothing.—Some economic and social aspects.—Clothing budgets.

"Bibliography," p.409-411.

General treatise, dealing rather fully with cultural methods, manufacturing processes, and industrial and economic considerations.

Southern Railway Company—Land and industrial department.

r 677.002 S72

Textile directory, 1912. [1912.]

Directory of cotton and woolen mills in the territory tributary to this railroad.

United States Conditioning and Testing Company. r 677.023 U25

Textile tables, including fundamental and derived units, tables of equivalents, comparative and international yarn tables, systems of counts and other information of use to the textile industry of the United States. Ed.3. 1914.

Watson, William, of Glasgow. 677.024 W32a

Advanced textile design. 1913. Longmans.

Continuation of his "Textile design and colour."

Highly technical work for advanced students. Treats fully compound and special cloths, in which two or more series of threads are employed.

Watson, William, of Glasgow. 677.024 W32

Textile design and colour; elementary weaves and figured fabrics. 1912. Longmans.

Deals chiefly with cloths composed of one series of warp and one series of weft threads. Aims to be "a complete work on the designing and colouring of the simpler classes of cloth."

Woodhouse, Thomas, & Milne, Thomas. 677.024 W86

Textile design, pure and applied. 1912. Macmillan.

Concerned largely with jute and linen weaving, but general in application. Clear and authoritative in treatment of technique and methods, with excellent illustrations.

Adams, Frank Manning, comp. r 677.03 A21

Drygoodsman's handy dictionary; a book of reference containing definitions and explanations of words, terms and expressions used in dry goods and general store work and connected industries, to which is appended many useful tables and a defined list of shoe and leather trade terms by J. H. Bolton and C. C. Irwin. 1912. Drygoodsman.

qr 677.05 P84

Posselt's textile journal; monthly, 1911-date. v.8-date. 1911-date.

Hooper, Luther. r 506 S66 v.69, pt.1

Loom and spindle, past, present and future. 1915. (In Smithsonian Institution. Annual report, v.69, pt.1, p.629-678.)

Canton lectures delivered before the Royal Society of Arts, London, Feb.-March 1912. Reprinted from "Journal of the Royal Society of Arts," Sept. 1912.

Cotton

For Cultivation, see 633.71

Cooke, Arthur O. j 677.1 C77

A visit to a cotton mill. [1912.] Frowde. (Oxford industrial readers.)

Binder's series reads "World at work."

"Follows the cotton step by step through all the processes by which it is converted, first into a thread of yarn, and then into a piece of calico or other cotton fabric." Chapter 2.

Illustrated.

Cramer, Stuart Warren, comp. r 677.1 C86

Useful information for cotton manufacturers. Ed.2. 4v. 1904-09. Privately printed.

Trade catalogue material interspersed with much definite technical data. Includes textile machinery, dyeing and finishing machinery, power-plant and accessories, mill architecture and engineering, and air conditioning.

Peake, R. J. 677.1 P34

Cotton from the raw material to the finished product. [1910.]
Pitman. (Pitman's common commodities of commerce.)

Deals with cultivation of cotton and manufacture of cotton goods. Special attention to British textile industry.

Thornley, Thomas. 677.1108 T41

Cotton waste; its production, manipulation and uses. 1912. Scott.
Concerned particularly with sources of cotton waste and reasons for its production and with cleaning, carding and spinning machinery for utilizing it.

Wool

American Woolen Company, Boston, Mass. r 677.2 A51

From wool to cloth. 1911.

Trade literature. Brief illustrated account of the different steps in the manufacture of finished worsteds and woollens from the rough wool.

Beaumont, Roberts. qr 677.2 B35

Woolen and worsted; the theory and technology of the manufacture of woolen, worsted and union yarns and fabrics. 1915. Bell.

Fully illustrated treatise on processes and mechanism.

Bowman, Frederick Hungerford. 677.2 B66

Structure of the wool fiber in its relation to the use of wool for technical purposes. [Rev. ed.] 1908. Macmillan.

"List of books consulted by the author," p.20.

Lectures delivered to the students of the Bradford (Eng.) Technical College and the members of the Dyers' and Colourists' Society.

Cooke, Arthur O. j 677.2 C77

A visit to a woollen mill. [1912.] Frowde. (Oxford industrial readers.)

Binder's series reads "World at work."

Tells about the source and preparation of wool and follows it through the various processes of an English woollen mill until it has become a piece of cloth. Illustrated.

Silk. Linen

Cheney Brothers, South Manchester, Conn. 677.3 C42

The story of silk & Cheney silks, by H. H. Manchester. 1916.

The same.....r 677.3 C42

Chittick, James. r 677.3 C44

Silk manufacturing and its problems; being a series of papers on important questions of interest to all those engaged in the manufacture and distribution of silks and other textiles. 1913. Privately printed.

"While these articles were originally written for the benefit of the producers and distributors of silk merchandise, and for those financially interested in such enterprises, yet the majority of the subjects discussed are of equal moment to those engaged in the cotton, woolen, worsted and knit goods branches of the textile industry." *Preface*.

Gives but little on actual processes of manufacturing, chief attention being given to economic rather than technical problems.

Fernbach, Robert Livingston. 677.3 F39

Chemical aspects of silk manufacture. 1910. Privately printed.

"To the deep-rooted fallacy that the problem of silk manufacture is mechanical, confined to the phase of throwing, warping and weaving, this book owes its existence. In these pages the all-important chemical aspects of the industry...are impartially set forth." *Preface*.

Cheney Brothers, South Manchester, Conn. r 677.303 C42

Glossary of silk terms, including a short history of silk, its origin, culture and manufacture; comp. with the assistance of James Chittick and E. A. Posselt. 1915.

Trade publication, giving useful information.

Foltzer, Joseph. r 677.36 F73

La soie artificielle et sa fabrication. Ed.2. 1909.

"Bibliographie," p.136.

Collection of practical information from French, German and English sources. Describes processes and finished products.

Moore, Alfred S. 677.41 M87

Linen from the raw material to the finished product. [1914.] Pitman. (Pitman's common commodities of commerce.)

Popular manual, describing methods and trade conditions in the British linen industry. Technical information is very slight.

Felt. Carpets. Knitting machines

Timmermann, John F. r 677.63 T47

Felt; instruction paper. 1909. Amer. School of Correspondence.

Brief description of manufacturing methods and machinery.

Review Publishing Co. N. Y. 677.64 R36

History and manufacture of floor coverings. 1899.

Deals very briefly with rugs, carpets, matting, oil-cloth and linoleum.

Metcalf, M. A. 677.661 M64

Knitting; a manual of practical instruction in the mechanical details of all types of knitting machinery, their operation, adjustment and care. 1912. Amer. School of Correspondence.

Description of factory equipment and methods, with detailed instruction to operator.

Rope

Carter, Herbert R. comp. 677.711 C23

Rope, twine and thread making; a practical handbook for the use of rope, twine and thread makers. 1909. Bale. (Technical handbooks, no.3.)

Illustrated guide, claiming to be only one (1912) treating the subject fully. Mainly British practice.

American Steel and Wire Company. r 677.72 A51

American wire rope catalogue and hand book. 1913.

Data on testing, properties, construction, handling, splicing, mechanical theory and applications of wire rope.

Hewitt, William. r 677.72 H49

Wire rope and the elements of its uses. 1911.

Booklet issued by Trenton Iron Company. Deals with manufacture and properties of wire rope, power transmission and cable splicing.

678 Rubber

For Production, see 633.473

- International Rubber Congress and Exhibition,** qr 678 I24
Batavia, 1914.

Rubber recueil; a series of papers about rubber, its botany, culture, preparation and commerce. [1914.] Unwin.

French, German, Dutch and English text; added title-page in Dutch.

- Potts, Harold Edwin.** 678 P86

Chemistry of the rubber industry. 1912. Constable. (Outlines of industrial chemistry.)

"Literature" at the end of each chapter.

Technology and analysis of rubber, both before and after vulcanization. Deals very briefly with synthetic rubber.

- Schidrowitz, Philip.** 678 S33

Rubber. [1911.] Methuen.

Authoritative, scientific treatise, dealing exhaustively with production, manufacture and properties, and discussing briefly substitutes and reclaimed rubber. Many references.

"Presents in a practical, critical and interesting manner, the story of rubber, from the origin of its name and the source of its supply, to its latest industrial application... [Author] is familiar with German, French and American mill practice, not from hearsay, but from personal observation." *India rubber world*, 1911.

- Sloane, Thomas O'Conor.** 678 S63

Rubber hand stamps and the manipulation of rubber. Ed.3, rev. 1912. Henley.

Includes chapters on glue stamps, the hektrograph, special cements and inks.

- United States Rubber Co.** r 678 U25

Rubber from forest to foot; story of a pair of boots. 1913.

Trade literature describing briefly the various processes in rubber manufacture.

r 678.02 R82

Rubber trade directory of the world, 1912. 1912. India Rubber Publishing Co.

- Pearson, Henry Clemens.** 678.105 P35

Rubber machinery; an encyclopedia of machines used in rubber manufacture. 1915. India Rubber World.

Covers subject pretty fully, including material both from patent specifications and manufacturers' literature in the United States and abroad.

Author is (1916) editor of the "India rubber world."

- Engineering Standards Committee.** qr 678.37 E64

Report on British standard pneumatic tyre rims for automobiles, motor cycles and cycles. 1915. (British standard sections, no.70.)

- Firestone Tire & Rubber Co. Akron, O.** 678.37 F51

Care and repair of tires. [1915?]

- Goodyear Tire & Rubber Company, Akron, O.** r 678.37 G63

Fundamentals of tire construction. 1913.

Contents: From latex to tire, by E. R. Hall.—Construction of tires, by P. W. Litchfield.

- Ditmar, Rudolf.** r 678.7 D64

Die synthese des kautschuks. 1912.

About half the book is compiled from patent records.

679.5 Celluloid

Masselon, and others.

679.5 M45

Celluloid; its manufacture, applications and substitutes; tr. from the French by H. H. Hodgson. 1912. Griffin.

Practical work dealing with raw materials, manufacturing processes, tests and properties of celluloid, and celluloid substitutes; also with applications of celluloid, with operation of factories, and precautions to be exercised.

Piest, C. and others.

r 679.5 P57

Das zelluloid; beschreibung seiner herstellung, verarbeitung und seiner ersatzstoffe. 1913. (Monographien über chemisch-technische fabrikationsmethoden.)

Based on practical factory experience. Considers both technical and industrial problems.

680 Mechanic trades

Boy mechanic. 2v. 1913-15. Popular Mechanics Co. q 680 B66

The same.....qj 680 B66

The same.....qr 680 B66

680 H75

Home mechanics; ed. by Archibald Williams. [1914.] Sully. (Hobby books.)

Short papers on making useful, entertaining or decorative articles. Some of the directions are detailed; others too brief for the beginner.

qr 680.5 E44

World's advance [monthly], Jan. 1914-Sept. 1915. v.28-31. 1914-15.

v.28, Jan.-June 1914, title reads "Modern electrics and mechanics;" v.20, July-Dec. 1914, "Popular electricity and modern mechanics;" v.30, no.1-3, Jan.-March 1915, "Modern mechanics;" v.30, no.4-6, v.31, no.1-3, April-Sept. 1915, "World's advance."

With the number for Oct. 1915 this magazine was merged into the "Popular science monthly."

For v.18-27 see preceding catalogue, v.6, under title "Electrician and mechanic."

681 Watch and instrument-making

Moore, Mrs N. (Hudson).

681 M87

Old clock book. 1911. Stokes.

"List of English and continental clockmakers," p.165-293; "List of American clock makers," p.297-330.

Describes and illustrates old clocks and watches, both English and American.

Waltham Watch Company, Waltham, Mass.

r 681 W19

Helpful information for watchmakers, by Olof Ohlson. [1915.]

qr 681.05 Z43

Zeitschrift für instrumentenkunde; organ für Mittheilungen aus dem gesammten gebiete der wissenschaftlichen technik [monthly]; general-register, v.11-30, jahrgänge 1891-1910.

For index for v.1-10 and for volumes of magazine see preceding catalogue, v.1, 6.

682 Blacksmithing

- Crowe, Charles Philip.** 682 C89
 Forgecraft. 1913. Adams.
 Essentially a practical book. Describes tools and materials, welding methods for iron and steel, the treatment of steel and the making of common tools.
- Ilgen, William Lewis.** 682 I22
 Forge work, with editorial revision by C. F. Moore. 1912. Amer. Book Co.
 Brief and elementary. For use in manual training and trade schools.
- Richards, William Allyn.** 682 R411
 Forging of iron and steel; a text book for the use of students in colleges, secondary schools and the shop. 1915. Van Nostrand.
 Text-book of blacksmithing methods, including tempering of tool steels. Confined almost entirely to handwork.
- Clark, James.** 682.1 C52
 Shoeing and balancing the light harness horse. 1916. Horse World Co.
- Fleming, George, 1833-1901.** r 682.1 F62
 Modern horseshoeing; a practical work on the shoeing of horses. 1904. Ogilvie.
- United States—Mounted service school, Fort Riley, Kan.** r 682.1 U25a
 The army horseshoer, 1912; a manual prepared for use of students of the training school for farriers and horseshoers. 1912.
- United States—War department.** r 682.1 U253
 Manual for farriers, horseshoers, saddlers and wagoners or teamsters, 1914. 1915.
- Wildair, *pseud.*** r 682.1 W71
 Rational horse-shoeing. 1873. Wynkoop.

684 Wood-working

For Wood, see 674

- Crawshaw, Fred Duane.** 684 C87a
 Problems in furniture making. Ed.5. 1913. Manual Arts Press.
 "References on wood finishes," p.17.
 Collection of working drawings of simple furniture, with brief hints on design, construction and finishing. Intended for manual training school students and amateurs.
- Foster, Edwin W.** 684 F81c
 Carpentry and woodwork. 1911. Doubleday. (Children's library of work and play.)
The same.....j 684 F81
 Chapters on the designing of moving toys, chip carving, shop equipment, a drawing outfit, different kinds of wood, outdoor carpentry, etc, and directions for making furniture and many simple articles for household use.

Griffith, Ira Samuel.

684 G89r

Radford's manual training; or, Home furniture maker and amateur craftsman; a text book for schools and shops, and an inspiration and guide for all home craftsmen; ed. under the supervision of W. A. Radford, assisted by B. L. Johnson. 2v. 1914. Radford Architectural Co.

Mainly woodwork, but touches on stenciling, metal-work, rush weaving and leather-work, particularly in connection with furniture making. Each volume contains indexes to both.

Johnson, George F.

684 J36

Toys and toymaking. 1912. Longmans.

The same.....j 684 J36

Brief but definite directions and dimensioned drawings for construction of simple models.

"The materials employed are all of a simple and suitable nature, and, where it is difficult to obtain those recommended in the Introductory Notes, efficient substitutes will be found in ordinary used matches and old cardboard boxes or stiff paper." *Preface*.

Moore, Harris W.

j 684 M87

Manual training toys for the boy's workshop. 1912. Manual Arts Press.

Plates and working directions for making darts, flying tops, kites, windmills and many other toys.

Noyes, William.

684 N48d

Design and construction in wood. 1913. Manual Arts Press.

Contains bibliographies.

Purpose is "to give to beginners in woodworking an opportunity for the acquisition of skill in the handling of tools, and...some practice in designing simple projects in wood." *Foreword*.

Directions for the making of artistic scrap baskets, mitred picture-frames, candlesticks, taborets, trays and other small articles.

Seaton, George Ambrose.

j 684 S44

Selected shop problems. 1910. Manual Arts Press. (Manual training reprints; ser.A, no.3.)

Tells how to make a taboret, book and magazine rack, small wall cabinet, library table, desk, etc. Most of the problems give working dimensions. 16 plates.

Selden, Frank Henry.

684 S46

Elementary cabinetwork for manual training classes. 1909. Rand.

Definite directions for making different articles of furniture.

Verrill, Alpheus Hyatt.

684 V28

The amateur carpenter. 1915. Dodd.

Very good book for beginners. Not limited to instructions for making specific articles, but gives a good deal of attention to principles of woodworking. Considers properties of various woods, methods of finishing, staining and waterproofing, and gives directions for some other useful shop-work such as soldering and glass-working.

qr 684.05 F99

Furniture manufacturer and artisan [monthly], 1911-date. v.62-date. 1911-date.

v.62-date. (new ser. v.1-date.) 1911-date.

Upholstery

Stephenson, John Wesley.

q 684.7 S83

Furniture upholstery; a practical handbook for the upholsterer. 2 pts. in iv. 1914. Clifford.

Gives very little attention to tools and materials, but describes many methods in detail. Lacks index.

qr 747 U26

Upholsterer; devoted to the upholstery arts: draping, furniture, furnishings [monthly], 1913-date. v.49-date. 1913-date.

685 Shoes

Dooley, William Henry.

685 D73

Manual of shoemaking and leather and rubber products. 1912. Little.

Treats shoemaking comprehensively, and deals briefly with manufacture of gloves, belting and rubber footwear. Not too technical for the general reader.

La Crosse (Wis.) Rubber Mills Company.

qr 685.31432 L12

Manufacture of rubber footwear; an illustrated story of rubber from its growth to the finished product. 1915.

Allen, Frederick James.

685.32 A42

The shoe industry. 1916. Vocation Bureau of Boston.

"Shoe and leather bibliography," p.317-319.

Non-technical description of manufacturing processes and detailed study of industrial and employment conditions.

Nichols, Fred Hammond, comp.

685.32 N31

Building of a shoe; a series of practical chapters prepared by well-known authorities in the several departments of shoe manufacturing and selling. 1912. Nichols Press.

Gives much information in rather disjointed manner on all aspects of this industry, from the raw materials to the retail selling of the shoe.

r 685.32 S55

Shoe and leather lexicon; an illustrated glossary of trade and technical terms relating to shoes, also leather and other shoe materials and allied commodities, with especial reference to the production, distribution and retail merchandising of the finished article. Rev. ed. 1914. Boot and Shoe Recorder Pub. Co.

Tents

Chandler, Ernest.

685.531 C36

Awnings and tents; construction and design. 1914. Privately printed.

Practical work on structural and mechanical features, with very slight attention to materials.

686 Bookbinding

Bailey, Arthur Low.

r 686 B15

Library bookbinding. 1916. Wilson.

"Reading list on binding," p.221-223.

Authoritative work by the chairman (1906-16) of the Committee on bookbinding of the American Library Association. Gives the best practical information available on the subject.

Dana, John Cotton.

686 D19

Notes on bookbinding for libraries. [Ed.2], rev. & enl. 1910. Library Bureau.

"A few of the best books on bookbinding, paper and leather," p.165-168.

Treats of binding, repairing and rebinding. Discusses materials and methods, giving notes on their comparative value, especially for use in public libraries.

Philip, Alexander J.

686 P49

Business of bookbinding; bookbinding from the point of view of the binder, the publisher, the librarian and the general reader, with chapters on the manufacture of binders' leather and cloth and a description of a working bindery. 1912. Paul.

Practical description of modern materials and processes.

Pleger, John J.

686 P69

Bookbinding and its auxiliary branches. 4 pts. in 4v. 1914. Inland Printer Co.

v.1. Paper ruling.

v.2. Punching, crimping, eyeletting, pamphlet and quarter binding.

v.3. Blank, edition and job forwarding, finishing and stamping.

v.4. Gilt edging, goffered edging, marbling, hand tooling and the care of books.

Scott-Mitchell, Frederick.

686.41 S42

Practical gilding, bronzing, lacquering and glass embossing. [Ed.2.] 1915. Trade Papers Pub. Co. ("The Decorator" series of practical handbooks.)

Covers application of all metal leaf or powders by means of an adhesive vehicle or mordant, but does not deal with electroplating or chemical deposit gilding.

Silverman, Alexander, & Neckerman, P. D.

686.7 S58

The silvering of glass. [1915.]

"Bibliography," p.12-16.

Reprinted from "Transactions of American Ceramic Society," v.17.

Pamphlet reviewing history of the art and giving a record of some original investigation.

687 Tailoring. Sewing machines

Bryner, Edna.

687 B84

The garment trades. 1916. Survey committee of the Cleveland foundation. (Cleveland Education Survey.)

The sewing trades offer the largest industrial opportunity in Cleveland for girls. This report deals with methods and conditions in Cleveland factories.

Singer Sewing Machine Company, N. Y.

r 687.1 S61

Mechanics of the sewing machine (National Education Association edition). 1914.

One of a series of brief monographs prepared, for educational purposes, by various manufacturers in coöperation with the Joint committee on physics of the National Education Association. Gives elementary instruction in mechanics based on construction and operation of the Singer machine. Gives brief information on the industries using these machines, and some historical data.

689 Handicraft

Baskets

Blanchard, Mary Miles.

689 B53

Basketry book; 12 lessons in reed weaving. 1914. Scribner.

Turner, Luther Weston.

689 T86

The basket maker. 1909. Atkinson.

Well illustrated booklet for the amateur mat and basket weaver. Author is (1909) director of manual training in the Hill School, Pottstown, Pa.

"Mr. Turner knows his subject thoroughly, having tramped with Indians for materials, worked with Indians for processes, practised with pupils for methods, and studied with specialists for tasteful results." *H. T. Bailey, in Preface.*

Wisconsin—Workshop for the blind, Milwaukee. qr 689 W31

Basket specialties in willow, rattan and steel bound, for laundries, hotels, asylums, factories and homes.

Trade catalogue, fully illustrated.

Cardboard construction. Weaving

Bowling, Tom, *pseud.* 689 B66

Book of knots; a complete treatise on the art of cordage, describing the manner of making every knot, tie and splice. Ed.6. 1890. Allen.

Buxton, George Frederick, & Curran, F. L. 689 B98

Paper and cardboard construction; book problems, box problems, card problems, envelope problems; an analysis of the scope of paper and cardboard construction for primary grades of public schools, an outline of a course with directions for making the problems, information regarding courses, equipment, supplies and methods of handling the work. 1911. Menomonie Press.

Appendix contains specimens of papers suitable for primary construction, mounted and described for convenient reference.

"Bibliography," p.158-162.

"A book of an unusual kind, of great practical value for elementary students of what may, in a general way, be called manual training." *Educational review*, 1911.

Newark Museum Association. qr 689 N26

Story of textiles. [1916.]

690 Building

Bibliography

Liverpool, England—Free public libraries. b or 6.69 L74

Hand-list of books on the building trades in the Reference department; being a continuation of the "Hand-list of books on architecture." 1896.

—Supplement; hand-list of books on architecture and the building trades. 1902.....b or 6.72 L74a

General works

Barnard, John. r 690 B25

Every man his own mechanic; a complete guide for the amateur to all constructive and decorative work. [1914.] Stokes.

Includes excavation, masonry, carpentry, ornamental woodwork, glazing, painting, paper hanging, metal work, and household fixtures. Illustrations are good.

Campin, Francis. r 690 C16

Materials and construction; a theoretical and practical treatise on the strains, designing and erection of works of construction. Ed.3. 1891. Lockwood.

r 690 D48

Deutsches jahrbuch über die leistungen und fortschritte auf den gebieten der theorie und praxis der baugewerbe, 1873-74. 4.-5. jahrgang. 1874-75.

"Bibliographie," 4. jahrgang, p.683-686.

Dobson, Edward.

r 690 D65

Rudiments of the art of building. Ed.3. 1859. Weale.

Contents: General principles of construction.—Materials used in building.—Strength of materials.—Use of materials.—Working drawings, specifications and estimates.

Eckblaw, Karl John Theodore.

690 E42

Farm structures. 1914. Macmillan.

Discusses structural materials and considers farm buildings with reference to location, construction, cost, heating, lighting, plumbing and water-supply.

Heine, G.

r 690 H41

Darstellung der allgemeinen baukunde, zum gebrauche als leitfaden bei vorträgen über dieselbe in gewerb- und baugewerbschulen, so wie zur selbstbelehrung für baugewerken, bauliebhaber und cameralisten. Ed.3. 1853.

Howes, Benjamin Alfred.

690 H85

Building by a builder; practical and economical considerations for the man about to build. 1914. Doubleday.

Written in a pleasant, familiar style, and interesting even if a little indefinite. Not concerned with details of actual building construction, but discusses in a general way some frequent mistakes and gives sensible advice on financing projects and on planning and overseeing construction of safe and attractive houses.

Mitchell, Charles F.

690 M74

Building construction and drawing; a text book on the principles and details of modern construction [written with the assistance of] G. A. Mitchell. Ed.8, rev. & enl. 1911. Batsford.

"List of works, etc. referred to," p.10.

Somewhat encyclopædic in form. Under different branches of building operations, defines and describes materials and forms of construction.

Nicholson, Peter.

r 690 N31

Mechanic's companion; or, The elements and practice of carpentry, joinery, bricklaying, masonry, slating, plastering, painting, smithing and turning, and an introduction to practical geometry, to which is added an essay on the steam-engine. 1852. Bell.

Richardson, Henry Hobson.

qr 690 R41

County buildings for Allegheny county, Pa.; specification for court house, H. H. Richardson, architect. [1884?]

With this are bound: Specification for jail [Allegheny county], H. H. Richardson, architect; Specifications of the new court house for Allegheny county, also general description of county jail, according to the plans of E. E. Myers, architect; Specification for combination gas & electric light fixtures for court house, Allegheny county, Shepley, Rutan & Coolidge, architects; Specification which describes the material to be used and the work to be performed in painting the walls and ceilings of the new court house [Allegheny county], Shepley, Rutan & Coolidge, architects; Specifications of the work and materials required in the construction and completion of the plant houses and adjuncts, to be erected by Henry Phipps for the parks of Allegheny, Pa., J. M. Ralph, architect.

White, Charles Elmer.

r 690 W63

What you should know when building a little house. [1914.]
Ladies' Home Journal.

With this is bound "How to finance the building of a little home," by C. M. Keys.

Willmann, Leo von.

qr 690 W75

Aufgaben aus dem gebiete der bauconstructions-elemente zum ge-
brauche beim unterricht an technischen lehranstalten. v.2. 1884.
v.2. Fenster und thüren.—Holzconstruktionen.

Arthur, William, b. 1860.

690.2 A79

Contractors' and builders' handbook. 1911. Williams.

Bibliography, p.342-347.

Tables and practical data relating to contractors' work, with useful advice on mis-
cellaneous topics such as safe building, handling of employes, estimating and contracts.

Kidder, Frank Eugene.

r 690.2 K24a4

Architects' and builders' pocket-book; comp. by a staff of special-
ists, Thomas Nolan, editor-in-chief. Ed.16, rewritten. 1916. Wiley.

qr 690.2 S97

Sweet's architectural catalogue, 1912-16; indexed by firms represented,
by products and by location; pub. annually. 1911-16. Sweet's Cata-
logue Service.

Volumes for 1912-15 title reads "Sweet's catalogue of building construction."

Subtitle varies.

Consolidation of the trade catalogues of manufacturers of and dealers in building
materials. Checking list covers in minute detail the points to be included in specifica-
tions.

qr 690.5 D48

Deutsche bauzeitung; organ des Verbandes Deutscher Architekten- und
Ingenieur-Vereine [semiweekly], 1868-76. 2.-10. jahrgang. [1868-76.]

2.-5. jahrgang, 1868-71, title reads "Deutsche bauzeitung; wochenblatt; hrsg. von
mitgliedern des Architekten-Vereins zu Berlin."

2.-6. jahrgang, 1868-72, published weekly.

Advertising supplements, numbered consecutively but not paged with the "Deutsche
bauzeitung," are omitted from v.7-8.

Shaw, Frank Leslie.

690.7 S53

The building trades. 1916. Survey committee of the Cleveland
foundation. (Cleveland Education Survey.)

Contents: Nature of building work.—Number in the trades and sources of supply.
—Conditions of labor.—Training before the boy leaves school.—Training after leaving
school.—A summary of training recommendations.

691 Materials. Processes. Preservatives

Boorman, Thomas Hugh.

r 693.5 N15 v.5

Waterproofing; various applications and comparative costs. 1909.
(In National Association of Cement Users. Proceedings, v.5, p.143-
154.)

Charnock, George Frederick.

r 691 C38

Mechanical technology; being a treatise on the materials and pre-
paratory processes of the mechanical industries. 1915. Constable.

"Books of reference," p.621-622.

Condensed summary of extraction, mechanical treatment and properties of the use-
ful metals, and of production and properties of other engineering materials. Does not
fully represent American practice.

- Husband, Joseph Biegler, & Harby, William.** 691 H95
Structural engineering. 1911. Longmans.

Well arranged and fairly thorough. Gives brief summary of the properties of materials and discusses, with a minimum of higher mathematics, the design of ordinary structures. Theory is not omitted, but emphasis is placed on points which determine practical design.

- Mills, Adelbert Philo.** 691 M69
Materials of construction; their manufacture, properties and uses. 1915. Wiley.

Contents: THE MATERIALS OF MASONRY CONSTRUCTION: Gypsum plasters; Quicklime; Hydrated lime; Hydraulic lime and grappier cements; Puzzolan cements, slag cements; Natural cements; Portland cement; Concrete; Building stones and stone masonry; Bricks and other clay products.—THE FERROUS METALS: Pig iron; Cast iron; Malleable cast iron; Wrought iron; Steel; The special alloy steels.—THE NON-FERROUS METALS AND ALLOYS AND TIMBER: The non-ferrous metals and alloys; Timber.

Bibliography, p.4-5.

Concise discussion of manufacture, properties and uses of ordinary building materials. Methods of testing not included.

- Montel, Alfredo.** q 691 M85

Building structures in earthquake countries; tr. from the Italian, with additions by the author. 1912. Griffin.

Considers seismic action and stability of various structures. Favors monolithic construction, preferably of concrete. Translation is not well done.

- American Wood Preservers' Association.** r 691.1 A51
Proceedings of the annual meeting (8th), 1912. [1912.]

- Associated Factory Mutual Fire Insurance Companies.** r 691.1 A84
Dry rot in factory timbers, 1915. Ed.2. 1915.

- Goltra, William Francis.** r 691.1 G59
Some facts about treating railroad ties. pt.1-6, in 2v. 1912-13. Privately printed.

- Weiss, Howard Frederick.** 691.15 W46
Preservation of structural timber. 1915. McGraw.

Author is (1915) director of the Forest products laboratory, United States forest service. Descriptive work. Discusses properties of treated and untreated timber and the factors causing deterioration; construction and operation of wood-preserving plants; preservatives; and processes for treatment of timber for various purposes.

Cement. Concrete

For Manufacture of cement, see 666.9

- Association of American Portland Cement Manufacturers.** r 691.3 A84
Lessons and general outline, with suggested exercises, for a manual training course in concrete; prepared for the use of instructors in planning and conducting elementary work in concrete. 1915.

- Beton-taschenbuch,** 1914. pt.2. r 691.3 B46
Contains bibliographies.

- Universal Portland Cement Co.** r 691.3 U25
Proceedings; conference of farmers institute and short course workers on permanent and sanitary farm improvements, held [at] Hotel Sherman, Chicago, Aug. 18-23, 1913. 1914.

Information on methods of using concrete, and discussion of its advantages as a material for farm structures.

Cochran, Jerome.**r 691.34 C64**

General specifications for concrete and reinforced concrete, including finishing and waterproofing. 1913. Van Nostrand.

"Bibliography of specifications" at end of each chapter.

Deals fully with materials, proportioning, mixing, handling and placing. Though author recognizes the value of the official specifications of various important organizations, his book represents an enormous amount of individual work. Bibliographies are valuable.

Cochran, Jerome.**691.34 C64**

Treatise on the inspection of concrete construction; containing practical hints for concrete inspectors, superintendents and others engaged in the construction of public and private works. 1913. Clark.

The same.....r 691.34 C64t

"List of authorities consulted," p.573-575.

Exhaustive reference work dealing fully with inspection of materials, construction and products.

Associated Portland Cement Manufacturers.**r 691.5 A84a**

Everyday uses of Portland cement. Ed.3. 1913.

Non-technical handbook on properties and applications. Describes many practical structures in concrete. Trade literature.

Iron. Steel

For Metallurgy of iron and steel, see 669.1

American Bridge Company.**r 691.7 A51**

Specifications and tables for steel framed structures; office, warehouse and manufacturing buildings, sheds, docks and structures other than bridges. [Ed.2.] 1913.

Certain parts of the specifications are identical with portions of the Pittsburgh building code.

Bernfeld, Lupescu Morris.**691.7 B45**

Erection and inspection of iron and steel constructions; written for the use of architects, engineers and builders and for civil service candidates for the position of inspector of iron and steel. 1913. Chief Pub. Co.

Outlines processes of manufacturing iron and steel, and deals with field inspection during erection. Deals quite briefly with shop and mill inspection, but is of value, as very little on this subject has been published elsewhere.

Carnegie Steel Company, Pittsburgh.**r 691.7 C21g**

General statistics and special treatise on Homestead steel works. 1912. Pittsburgh.

Trade literature of considerable local interest. Map and illustrations.

Carnegie Steel Company, Pittsburgh.**691.7 C21p3**

Pocket companion containing information appertaining to the use of steel as manufactured by the Carnegie Steel Company [Ed.16, rewritten.] 1913. Pittsburgh.

The same. [Ed.17, rev.] 1915.....r 691.7 C21p4

The same. [Ed.18, rev.] 1916.....r 691.7 C21p5

Edition for 1915-16 title reads "Pocket companion for engineers, architects and builders."

- Carnegie Steel Company, Pittsburgh.** r 691.7 C21S3
 Shape book, containing profiles, tables and data appertaining to the shapes, plates, bars, rails and track accessories manufactured by Carnegie Steel Company. [Ed.5.] 1915. Pittsburgh.
The same. 1911. Pittsburgh.....r 691.7 C21S2
The same. 1903. Pittsburgh.....r 691.7 C21S
 Contains also supplement no.12, 1909.
- Dahlstrom Metallic Door Company, Jamestown, N. Y.** qr 691.7 D15
 Hollow metal construction; architectural series, drawing no.1-26. 1913-14.
 Dimensioned drawings of metal doors, sash, elevator cages, and ornamental ironwork.
- Engineering Standards Committee.** qr 691.7 E64
 Beams. 1903. (British standard sections, no.4.)
 Bound with its "Equal angles, unequal angles, etc."
- Engineering Standards Committee.** qr 691.7 E64a
 Lists of British standard rolled sections for structural purposes. [Rev. ed.] 1914. (British standard sections no.1.)
- Godfrey, Edward, comp** r 691.7 G55
 Structural engineering. v.3. 1913. Privately printed. Pittsburgh.
 v.3. Steel designing.
 For v.1-2 see preceding catalogue, v.4, 6.
- Hoare, Charles.** r 691.7 H64
 "Iron and steel;" a work for the forge, foundry, factory and office. Ed.7, enl. 1874. Privately printed.
- Jones & Laughlin Steel Company.** r 691.7 J39a4
 Standard steel construction; a manual for architects, engineers and contractors. Ed.7. 1916. Pittsburgh.
- Lackawanna Steel Company.** r 691.7 L12
 Hand book; containing general information for the use of engineers, architects and builders, together with diagrams, dimensions and weights of structural steel sections, special shapes, merchant bars, steel sheet piling, standard heavy and light rails, track accessories, etc. manufactured by Lackawanna Steel Company, Buffalo, N. Y. 1914.
- Morris, Clyde T.** 691.7 M91a
 Designing and detailing of simple steel structures. Ed.3, rev. & enl. 1914. McGraw.
 Binder's title reads "Steel structures."
 Outlines good modern practice. Assumes previous knowledge of the calculation of stresses.
 "Full of practical suggestions in regard to the design and construction of details." *Industrial engineering and the engineering digest*, 1910.
- New Jersey Steel and Iron Co. Trenton.** r 691.7 N26
 Rolled beams, channels, angles, etc. made by the New Jersey Steel and Iron Co., Trenton, N. J.; Cooper, Hewitt & Co., New York. 1878.
- Schindler, Karl.** 691.7 S33
 Eisenkonstruktionen im hochbau; kurzgefasstes handbuch mit beispielen für den praktischen gebrauch. 1907.
 "Literaturverzeichnis," p.2.

Weyrauch, Jacob Johann.

r 691.7 W58

Strength and determination of the dimensions of structures of iron and steel, with reference to the latest investigations; tr. by A. J. Du Bois, with an appendix by R. H. Thurston. 1877. Wiley.

Williams, A. H. T. & Cullers, W. H.

r 691.7 W74

Hip and valley lay-outs and tables for engineers and architects. 1910.

"We have included at least ninety per cent of the problems usually met with in this class of work, and believe we have made it possible...to easily lay out and detail the greater majority of connections...in roof work." *Preface.*

Corrosion of iron and steel

Clark, Harry Willard, & Gage, S. D.

r 614.09744 M45 v.42

Studies of the relative corrosion of metal pipes by waters, especially before and after purification. 1911. (In Massachusetts—Health board. Annual report, v.42, p.287-310.)

"References," p.308-310.

Cushman, Allerton Seward.

r 660.5 I24 no.5

Pure iron vs. copper-bearing steel; a brief for the plaintiff with historical data bearing upon the development of rust-resistant metals in the U. S. 1913. (In Institute of Industrial Research, Washington, D. C. Bulletin no.5.)

Wilson, L. C.

691.75 W76

Corrosion of iron; a summary of causes and preventive measures. 1915. Engineering Magazine Co. (Works management library.)

Deals with corrosion of ferrous metals, giving some attention to effect of composition of iron and steel, and to pipe corrosion. The discussion of rust-proofing methods is extremely brief, and devoted chiefly to protective paints.

Scaffolding

Travelers Insurance Company, Hartford, Conn.

691.911 T69

Treatise on safety engineering as applied to scaffolds. 1915.

Deals with American practice in construction and use of scaffolding in the building trades, and is the first work to deal at all comprehensively with this subject from the standpoint of safety in service.

692 Estimates

Hodgson, Frederick Thomas.

692.5 H66a

Estimating frame and brick houses, barns, stables, factories and outbuildings. Ed.9, rev. & enl. 1913. Williams.

Devoted to building construction and does not include heating, plumbing and lighting installations. With this exception minute instructions are given for estimating everything from foundation to finishing.

Joslin, Arthur Waldo.

692.5 J44a

Estimating the cost of buildings; a systematic treatise on factors of cost and superintendence, with important chapters on plan reading, estimating the cost of building alterations and on system in the execution of building contracts. [Ed.2.] 1913. Williams.

Appeared in "Carpentry and building."

Includes details of exterior and interior finish. Examples are from author's practice in New England.

Wilson, J.**r 692.5 W76**

Mechanic's and builder's price book; showing in detail the price of wood, brick and stone work, painting and glazing, &c., to which is added a dictionary of mechanical terms, also a treatise on architecture. 1862. Appleton.

Evers, Cecil Calvert.**692.7 E95**

Commercial problem in buildings; a discussion of the economic and structural essentials of profitable building and the basis for valuation of improved real estate. 1914. Record and Guide Co.

Considers factors of environment, such as accessibility, transportation and topography; and the effect of structural features, arrangement and sanitation.

Building laws

Fitzpatrick, F. W. comp.**692.9 F58**

Building code; a compilation of building regulations covering every phase of municipal building activity, with special emphasis on fire preventive features. 1913. Amer. School of Correspondence.

Code is based on best ideas of all codes previously published and on author's personal views, formed by wide experience.

Hinz, R. R.**r 692.9 H57**

Vom einfluss der bauordnungen in Preussen auf die bauliche entwicklung der bauerndörfer; ein beitrag zur förderung des heimat-schutzes. [1911?]

"Von der herzoglichen Technischen hochschule Carolo-Wilhelmina zu Braunschweig zur erlangung der würde eines doktor-ingenieurs genehmigte dissertation."

Pittsburgh. Ordinances.**r 692.9 P6742**

Iron and steel construction of buildings. Pittsburgh. (File of council, series 1913, no.1588, bill no.3734.)

With this are bound "Ordinance regulating signs, signboards, awnings, marquises and porte cochères," and "Ordinance regulating the construction of hollow block and terra cotta tile walls of buildings."

Pittsburgh. Ordinances.**qr 692.9 P67420c**

Ordinance authorizing and regulating the use of concrete and reinforced concrete in the construction of buildings; prepared by Commission for the revision of building laws of Pittsburgh, enacted into a law Dec. 4, 1913.

Pittsburgh. Ordinances.**r 692.9 P67420**

Ordinance regulating all public performances of moving picture exhibitions, prescribing and defining the arrangements and precautions in buildings, rooms, enclosures or halls in which such exhibitions are given. (File of Select council, series 1909-1910, no.931, bill no.510.)

With this is bound "Ordinance regulating the construction of garages."

Pittsburgh—Public safety department.**r 692.9 P67**

Code of laws and ordinances relating to the Bureau of building inspection and governing the erection of buildings, etc. in the city of Pittsburgh, 1914. [1914.] Pittsburgh.

Binder's title reads "Manual."

693 Masonry. Fireproofing

Lang, Gustav.

qr 693 L23

Der schornsteinbau. pt.4. 1911.

Contents: Sockel, grundbau, fuchs und einsteigöffnungen, bekämpfung der rauch- und russplage.

For pts.1-3 see preceding catalogue, v.1.

Mitchell, Charles F.

693 M74

Brickwork & masonry; a practical text book for students & those engaged in the design & execution of structures in brick & stone [written with the assistance of] G. A. Mitchell. Ed.2, rev. & enl. 1908. Batsford.

Contents: Foundations.—Brickwork.—Sanitary work.—Roads and paving.—Masonry.—Walls and piers.—Arches.—Skew arches.—Gauged work.—Vaulting.—Flues, fire-places and tall chimneys.—Limes and cements.—Concrete and asphalte.—Bricks.—Stones.—Reinforced concrete.—Excavators', bricklayers' and masons' quantities and memoranda.

Author is (1908) lecturer on building construction in the Regent Street Polytechnic, London.

Davidson, Ellis A.

r 693.2 D29

Drawing for bricklayers, containing the constructive principles of brickwork and the method of drawing each subject, with the elements of freehand, object and plan drawing. [1872.] Cassell. (Cassell's technical manuals.)

[**Hydraulic-press Brick Co. St. Louis.**]

r 693.2 H99

Brick-scale tables, with explanatory notes for the designer in brick-work [prepared by M. P. McArdle]. 1914.

———Scales.r 693.2 H99a

Fifteen loose sheets in case 51 x 6 cm lettered: Brick scales.

Valuable in designing bonds and patterns for brick structures.

Hydraulic-press Brick Co. St. Louis.

qr 693.21 H99

Bonds and mortars in the wall of brick; an essay on design in patterns for brickwork. 1914.

Concrete construction

Association of American Portland Cement Manufacturers. r 693.5 A84

Bulletin. no. 20-23, 25-26. 1910-16.

no.19 is out of print.

no.20. Proportioning concrete mixtures and mixing and placing concrete.

no.21. Concrete silos.

no.22. Portland cement stucco.

no.23. Concrete tanks.

no.24 is out of print.

no.25. Reinforced concrete poles.

no.26. Concrete in the country.

In 1916 name of association was changed from Association of American Portland Cement Manufacturers to Portland Cement Association.

For no.1-18 see preceding catalogue, v.6.

Association of American Portland Cement Manu-

r 693.5 A84c

facturers, pub.

Concrete in the country. Ed.7. 1910.

Deals briefly with a large variety of types of concrete construction.

Atlas Portland Cement Company.

693.5 A88a

Concrete construction for the home and the farm; the recognized text book of cement users. [Ed.14], rev. 1915.

Tells in language free from technical terms how to use concrete in making walks, floors, steps, stairs, cisterns, tanks, posts, outbuildings, etc. Directions are simple and exact and no special skill is required.

Atlas Portland Cement Company.

693.5 A88r

Reinforced concrete in factory construction. [Ed.7.] 1913.

qr 693.5 C7432

Concrete [N. Y.]; a monthly magazine devoted to concrete construction and cement manufacture, July 1912–date. v.1–date. 1912–date.

Formed by the consolidation of "Cement age" of New York and "Concrete" of Detroit.

v.1–7, July 1912–15, title reads "Concrete-cement age."

International Correspondence Schools, Scranton, Pa.

693.5 I24

Concrete engineer's handbook; a convenient reference book for all persons interested in cement, plain and reinforced concrete, building construction, architecture, concrete blocks, mill building, office building, fire proof houses, etc. 1911.

Binder's title reads "I. C. S. concrete engineer's handbook."

Compilation covering briefly some of the more important features.

Seaton, Roy Andrew.

693.5 S44

Concrete construction for rural communities. 1916. McGraw. (Agricultural engineering series.)

Non-technical discussion of principles of construction in plain and reinforced concrete, and description of practice, chiefly with small size structures. Useful to practical workers in either rural or urban communities.

Sloan, Maurice M.

693.5 S63

The concrete house and its construction. 1912.

Published by the Association of American Portland Cement Manufacturers.

Illustrations, and details of practical construction of concrete and concrete block dwellings.

Compilation covering briefly some of the more important features.

Taylor, Frederick Winslow, & Thompson, S. E.

693.5 T25

Concrete costs; tables and recommendations for estimating the time and cost of labor operations in concrete construction and for introducing economical methods of management. 1912. Wiley.

The same.....r 693.5 T25

"Probably the most important book relating to concrete which has appeared in this country." *Engineering record*, 1912.

Based on 17 years of painstaking time study, considering in minute detail all the operations of concrete manufacture and construction.

Universal Portland Cement Co.

r 693.5 U25

Small farm buildings of concrete; a booklet of practical information for the farmer and rural contractor. 1912.

Gives specific information on construction of foundations, walls, floors and roofs, and submits plans for dairy buildings, ice-houses, poultry-houses, hog-houses, root-cellar and machine-sheds.

Reinforced concrete

Bibliography

Hoffmann, Richard, & Fitzinger, A. comp. qr 016.69355 H68

Zeitschriftenschau der gesamten eisenbetonliteratur bis ende 1911-13; gesammelt in der zeitschrift "Beton u. eisen" und nach den kapiteln des "Handbuches für eisenbetonbau" geordnet. 1912-14.

Volumes for 1912-13 are compiled by A. Fitzinger alone.

For volume for 1910 see preceding catalogue, v.6.

Moisseiff, Leon Solomon. r 016.69355 M78

Review of the literature of reinforced concrete; reprint of article in the "Engineering digest," to which is added a list of current books on cement, concrete, limes and allied subjects, with descriptive notes. 1909. Engineering News.

General works

Andrews, Hiram Bertrand. r 693.55 A56

Design of reinforced concrete slabs, beams and columns, conforming to the recommendations of the Joint Committee on Concrete and Reinforced Concrete. 1909. Privately printed.

Presents standard sections to simplify calculations.

Association of American Portland Cement r 693.55 A84

Manufacturers, pub.

Factories and warehouses of concrete. 1911.

Data on 235 buildings, housing 198 industries in 30 states. Gives illustrations, construction and cost data and testimonials.

Coleman, Thomas Everit. 693.55 C68

Estimating for reinforced concrete work; a handbook for measuring and pricing reinforced concrete; comp. for the use of engineers, architects and estimators. 1912. Batsford.

Small volume, containing much valuable information. Prices given are based on cost of material and labor in London district.

Dunn, William. 693.55 D92

Lectures on reinforced concrete; delivered at the Institution of Civil Engineers in November 1910. 1911. University of London Press.

Pocket contains diagrams.

For students with some knowledge of engineering. Treatment is not uniformly advanced, and only selected aspects of the subject are discussed. Deals with design of columns, beams, bridges and retaining walls, with chapters on failures and on quantities and costs.

Eddy, Henry Turner, & Turner, C. A. P. 693.55 E26

Concrete-steel construction. v.1. 1914. Privately printed.

v.1. Buildings.

Deals in general with the design and execution of reinforced concrete works, and in particular with the flat plate or "mushroom" type of construction.

"For those who have to do with flat-slab construction...the book is invaluable, but its usefulness so far as other forms of construction are concerned, is limited." *Canadian engineer*, 1914.

France—Ministère des travaux publics. 693.55 F86

Properties and design of reinforced concrete; instructions, authorized methods of calculation, experimental results and reports by the French government commissions on reinforced concrete; tr. and abridged by Nathaniel Martin. 1912. Van Nostrand.

"Bibliography," p.113-115.

Digest of French investigations, 1901-05. The record is of value in spite of the great progress since made both in America and abroad.

Gammon, John C. q 693.55 G16

Reinforced concrete design simplified; diagrams, tables and other data for designing and checking accurately and speedily, with an introduction by H. K. Dyson. 1911. Lockwood.

Diagrams of great value in expediting practical work in the calculation of concrete construction.

Godfrey, Edward. r 693.55 G55

Steel and reinforced concrete in buildings. 1911. Privately printed. [Pittsburgh?]

Rules and tables and principles of safe and consistent design of buildings. Intended for work on a small scale, which may not justify the employment of an engineer.

"An almost necessary accompaniment to this book is a book giving the dimensions and properties of steel sections such as the Carnegie pocket companion or Godfrey's tables." *Introduction.*

qr 693.55 H23

Handbuch für eisenbetonbau; hrsg. von F. von Emperger. Ed.2. v.1-7, 9, 11-12. 1910-15.

v.1. Entwicklungsgeschichte und theorie des eisenbetons.

v.2. Der baustoff und seine bearbeitung.

v.3. Grund- und mauerwerksbau.

v.4. Wasserbau.

v.5. Flüssigkeitsbehälter, röhren, kanäle.

v.6. Brückenbau.

v.7. Eisenbahnbau, tunnelbau, stadt- und untergrundbahnen, bergbau.

v.9. Hochbau, pt.1.

v.11. Gebäude für besondere zwecke, pt.1.

v.12. Gebäude für besondere zwecke, pt.2.

Contains bibliographies.

———Ergänzungsband. v.1. 1911.....qr 693.55 H23a

v.1. Die künstlerische gestaltung der eisenbetonbauten.

Encyclopedic work on reinforced concrete construction.

"It is not possible to make a comparison of such a work as this with any existing text-book, since it stands alone in its scale and its comprehensiveness, and it is likely to remain for long the standard work of reference on the subject." *Concrete and constructional engineering, 1912.*

Hicks, Lewis Albert. r 693.55 H52

Standardized square footings of reinforced concrete. 2v. 1915. Schwabacher-Frey Stationery Co.

v.1. Text.

v.2. Nomographs for stresses.

Diagrams, with descriptive text, devised for the solution of problems in design of square footings of reinforced concrete. Most of the formulas are in the form used by Prof. A. N. Talbot in the tests described in Bulletin 67 of the University of Illinois Engineering experiment station.

Hool, George Albert.

693.55 H77

Reinforced concrete construction; prepared in the Extension division of the University of Wisconsin. 3v. 1912-16. McGraw. (Engineering education series.)

v.1. Fundamental principles.

v.2. Retaining walls and buildings.

v.3. Bridges and culverts.

Intended primarily for correspondence instruction and is only moderately technical.

Northwestern Expanded Metal Company, Chicago.

r 693.55 N45

Designing data for reinforced concrete. 1914.

Special attention to expanded metal reinforcement made by the publishers. Contains also some general information on concrete design.

Ransome, Ernest Leslie, & Saurbrey, Alexis.

693.55 R19

Reinforced concrete buildings; a treatise on the history, patents, design and erection of the principal parts entering into a modern reinforced concrete building. 1912. McGraw.

Concise. Largely of a practical nature, but intended for the professional engineer. Seeks to present useful information not given in other works on the subject. Authors are (1912) respectively president and chief engineer of the Ransome Engineering Company.

Fireproofing

Associated Metal Lath Manufacturers.

r 693.66 A84

Metal lath hand-book; ed. by H. B. McMaster. 1914.

Describes best methods of using metal lath and discusses results of fire tests.

r 693.8 B86

Building progress [monthly], 1911-13. v.1-3. 1911-13. Pittsburgh.

No more published.

Freitag, Joseph Kendall.

r 693.8 F91

Fire prevention and fire protection as applied to building construction; a handbook of theory and practice. 1912. Wiley.

Valuable work on principles of fireproof construction. Deals fully with fire resistant materials and their use in slow-burning and fireproof structures for various purposes. Discusses causes of fires, and protective equipment.

r 693.8 I24

Safety engineering; prevention of needless waste by fires and accidents; monthly, April 1913-date. v.25, no.4-date. 1913-date.

For v.13-v.25, no.3 see preceding catalogue, v.6, under title "Insurance engineering."

694 Carpentry

See also Wood-working, 684

Fletcher, Banister Flight, & Fletcher, H. P.

694 F63a

Carpentry and joinery; a text-book for architects, engineers, surveyors, craftsmen and students. Ed.4, rev. & enl. 1914. Whittaker.

Hodgson, Frederick Thomas.

694 H66p

Practical treatise on the steel square and its application to everyday use; an exhaustive collection of steel square problems and solutions, "old and new," with many original and useful additions, forming a complete encyclopedia of steel square knowledge, with a brief history of the square and description of tables, keys and other aids and attachments. [Ed.2], rev. 2v. 1913-14. Drake.

Collings, George.

r 694.8 C69

Practical treatise on handrailing, showing new and simple methods for finding the pitch of the plank, drawing the moulds, bevelling, jointing-up and squaring the wreath. 1882. Lockwood. (Weale's rudimentary series.)

696 Plumbing

American School of Correspondence.

696 A51

Plumbing; a complete working manual of approved American practice in the selection and installation of plumbing fixtures and piping systems, including the allied subjects of house drainage and modern methods of sanitation, by W. B. Gray and C. B. Ball. 1909.

Brief and elementary. Mr Ball is (1909) chief sanitary inspector, city of Chicago.

Gerhard, William Paul.

696 G31w

Water supply, sewerage and plumbing of modern city buildings. 1910. Wiley.

Presents general principles of sanitary plumbing and domestic water-supply. Discusses plumbing fixtures and their installation in large buildings for manufacturing, commercial and institutional purposes.

Hellyer, Samuel Stevens.

696 H42

Principles and practice of plumbing. [Ed.6, rev.] 1905. Bell. (Technological handbooks.)

Clarksburg, W. Va.—Water works and sewerage board.

r 696.1 C53

Sanitary plumbing code. 1914.

Hutton, William, b. 1877.

696.12 H97

Hot water supply and kitchen boiler connections; a text book on the installation of hot water service in residences and other buildings and methods of connecting range boilers, steam and gas water heaters. 1913. Williams.

Based on articles from "Metal worker, plumber and steam fitter."

Touches briefly on warming of buildings by excess heat from hot-water supply systems.

Hutton, William, b. 1877.

696.6 H97

Joint wiping and lead work; a series of practical hints on the preparation of lead pipe and connections and the wiping of joints in various positions. 1912. Williams.

Reprinted from "Metal worker, plumber and steam fitter."

697 Heating and ventilation

Allen, John Robins.

697 A42a2

Notes on heating and ventilation. Ed.3. 1911. Domestic Engineering Co.

"Written primarily for the steam-fitter and designer of heating systems. It presupposes a knowledge of the construction and operation of the simpler forms of heating systems and has been reduced to as brief a form as possible." *Preface.*

Clear, accurate outline of the best practice, particularly as applied to dwelling house installations. Practically omits hot water heating.

Barker, Arthur Henry.

q 697 B24

Barker on heating; the theory and practice of heating and ventilation. 1912. Carton Press.

An exhaustive work. Purpose is to give a detailed explanation of the scientific principles of heating and ventilation and to indicate the limits within which these principles are applicable in practice. No attempt is made to describe construction or installation of apparatus.

Carpenter, Rolla Clinton.

697 C22a

Heating and ventilating buildings; a manual for heating engineers and architects. Ed.6, rev. & rewritten. 1915. Wiley.

"Literature and references," p.533-535.

Discusses principles and describes practical methods of construction and installation of equipment.

Greene, Arthur Maurice.

697 G83

Elements of heating and ventilation; a text-book for students, engineers and architects. 1913. Wiley.

Concise discussion of design and installation of heating and ventilating systems, including heating by steam, hot water, heated air, electricity and gas.

Hoffman, James David, & Raber, B. F.

697 H67a

Handbook for heating and ventilating engineers. [Ed.2, rev.] 1913. McGraw.

Contains many bibliographies.

Covers briefly all branches, including electric heating. Considerable attention to principles.

Hubbard, Charles Lincoln.

697 H87c

Combined power and heating plants; a treatise for designing and constructing engineers, architects and students. 1915. McGraw. (Power, heating and ventilation, pt.3.)

Considers power and heating equipment for buildings of large size, with special reference to steam requirements. Other features of the mechanical plant are touched on only in their relationship to the steam side of the problem.

Hubbard, Charles Lincoln.

697 H87h

Heating and ventilating plants; a treatise for designing and constructing engineers, architects and students. Ed.2, rewritten. 1914. McGraw. (Power, heating and ventilation, pt.2.)

Elementary and largely descriptive. Deals with small and medium sized power-plants. Partly rewritten from author's magazine articles.

Hubbard, Charles Lincoln.

697 H87

Heating and ventilation; a working manual of approved practice in the heating and ventilating of dwelling-houses and other buildings, with complete practical instruction in the mechanical details, operation and care of modern heating and ventilating plants. 1909. Amer. School of Correspondence.

The same. 1908. (In American School of Correspondence. Cyclopedia of architecture, carpentry and building, v.10, p.1-213.) b 690 A51 v.10

Clear and concise description of apparatus. Practical.

Meier, Konrad.

697 M57

Mechanics of heating and ventilating. 1912. McGraw.

Study of the theory of flow of water, steam and air for heating and of air for ventilation.

- Raynes, F. W.** 697 R24
Heating systems; design of hot water and steam heating apparatus. 1913. Longmans.
Clear and direct treatment of present-day heating practice and apparatus, practical rather than theoretical. Includes many drawings and illustrations of apparatus.
- Reynolds (B. F.) & Co. Chicago.** 697 R37
Ventilation in the public building.
Pamphlet describing apparatus for ventilation of theatres, churches, schools, halls, restaurants, etc.
- Snow, William Gage.** 697 S67a
Principles of heating; a practical and comprehensive treatise on applied theory in heating. [Rev. & enl. ed.] 1912. Williams.
Largely reprinted from "Metal worker." Treatment of vacuum and vapor systems is the most complete in print (1908).
- Sturtevant (B. F.) Co.** r 697 S93a
Heating and ventilation. 1914. (Sturtevant engineering series.)
Catalogue no.215.
- Snow, William Gage.** 697.3 S67a
Furnace heating; a practical and comprehensive treatise on warming buildings with hot air. Ed.5, rev. & enl. 1915. Williams.
- Pierce, Edward Richmond.** 697.5 P55
Practical manual of steam and hot-water heating. 1911. Domestic Engineering Co.
Contains but little theory. Considers estimating and installation of heating systems from the point of view of the ordinary workman.
- Buffalo Forge Co.** r 697.9 B86
Engineers hand-book of tables, charts and data on the application of centrifugal fans and fan system apparatus, including engines and motors, air washers, hot blast heaters and systems of air distribution; ed. by W. H. Carrier. 1914.
Binder's title reads "Fan engineering."
Valuable data on heating, drying, ventilation and air conditioning.
- Hayes, William Halsie.** 697.9 H37
Practical exhaust and blow piping; a treatise on the planning and installation of fan-piping in all its branches. 1913. Williams.
Practical work on design and installation of piping for blower and exhaust systems, whether merely for air moving or for removal of waste products.
- Hubbard, Charles Lincoln.** 697.9 H87
Ventilation hand book; the principles and practice of ventilation as applied to furnace heating, ducts, flues and dampers for gravity heating, fans and fan work for ventilation and hot blast heating, a series of questions, answers and descriptions. 1916. Sheet Metal Publication Co.
Brief elementary work in catechism form.
- New York State Commission on Ventilation.** r 697.9 N26o
Outline of the activities of the commission for the year 1915. [1916.]
A review of the first 18 months' work of the commission, June 1913-1914, will be found in the "Transactions of the American Society of Heating and Ventilating Engineers" (r 697.05 A51 v.21).

New York State Commission on Ventilation.

qr 697.9 N26

Some results of the first year's work of the New York State Commission on Ventilation; read before American Public Health Association, Jacksonville, Fla., Dec. 3, 1914. [1914.]

Reprinted from "American journal of public health," v.5, no.2.

698 Paper-hanging. Painting. Varnishing**Kelly, Albanis Ashmun.**

698 K17

The expert paper hanger; a work of reference designed for the use of practical paper hangers and comprising the methods used by expert workmen in covering walls with papers, textile goods and other fabrics, including the preparation of walls, etc. 1912. Master Painter Pub. Co

Includes hanging of many special fabrics.

r 698 P165

Painter's, gilder's and varnisher's manual, containing rules and regulations in every thing relating to the arts of painting, gilding and varnishing. Rev. ed. 1836. Taylor.

Thompson, Gustave Whyte.

r 698 T38

Painting defects; their causes and prevention; an address. 1915. Privately printed.

Discusses such defects as the cracking, scaling, blistering, peeling and discoloration of paint coatings.

Jennings, Arthur Seymour.

698.1 J26

Commercial paints and painting; a handbook for architects, engineers, property owners, painters and decorators, etc. 1914. Constable. ("Westminster" series.)

Primarily an aid to selection of the best paint for any kind of service. Deals, therefore, with materials, tests, economic value of paint, and in general with methods of application. Practical details of actual painting, and processes of manufacture receive only slight attention.

Kelly, Albanis Ashmun.

698.1 K17

The expert house painter; a complete exposition of the art and practice of house and structural painting, interior and exterior, including surfaces of wood, plaster, stucco, cement and concrete, iron, steel, galvanized iron, tin, copper, etc. 1913. Master Painter Pub. Co. (Expert series.)

Comprehensive work on all branches of practical house painting. Contains valuable material, but reference use is hampered by lack of index.

Gardner, Henry Alfred.

r 698.3 G18

Specifications and data on painting and finishing southern yellow pine (exterior and interior). 1916. Paint Manufacturers Assoc. of the U. S.

Presented before the Southern Pine Association School of lumber salesmanship, St. Louis, June 27, 1916.

Kelly, Albanis Ashmun.

698.3 K17

The expert wood finisher; a complete manual of the art and practice of finishing woods by staining, filling, varnishing, waxing, etc. 1912. Master Painter Pub. Co.

Schmidt, Walter Karl.

698.3 S35

Problems of the finishing room; a reference and formula manual for furniture finishers, woodworkers, builders, interior decorators, manual training departments, etc. 1916. Periodical Pub. Co.

Production and application of stains, fillers, shellacs, varnishes and waxes for furniture finishing.

699 Car-building. Boat-building

For Naval architecture, see 623.8

qr 699 C18c2

Car-builders' dictionary; definitions and illustrations of American railway cars, their parts and equipment; comp. for the Master Car-builders' Association, 1912, 1916. Ed.5-8. 1913-16.

Beard, Daniel Carter.

699.1 B34

Boat-building and boating. 1911. Scribner.

Contents: How to cross a stream on a log.—Home-made boats.—A raft that will sail.—Canoes.—Canoes and boating stunts.—The birch-bark.—How to build a paddling dory.—The landlubber's chapter.—How to rig and sail small boats.—More rigs of all kinds for small boats.—Knots, bends and hitches.—How to build a cheap boat.—A "rough-and-ready" boat.—How to build cheap and substantial house-boats.—A cheap and speedy motor-boat.

Excellent book for amateurs. Gives clear and definite instructions for construction and handling of canoes and small sail-boats. Meager information on power-boats, describing only one crude type.

Konijnenburg, E. van.

qr 699.109 K37

Shipbuilding from its beginnings. 3v.

v.1. Text.

v.2-3. Plates.

Issued by the Permanent International Association of Navigation Congresses.

Shows development in types of vessels, with particular attention to early forms. Remarkably rich in illustrations.

Stratton, E. Platt.

r 699.12 S91

Standardization in the construction of freight ships; written for the Department of commerce, May 1916. 1916.

United States—Navigation bureau. (Department of commerce.)

r 699.12 U25

Measurement of vessels; regulations interpreting laws relating to admeasurement of vessels, together with the laws of United States and the Suez canal regulations, with diagrams, Sept. 22, 1915. Ed.2. 1915.

